

# AMERICAN JOURNAL OF OPHTHALMOLOGY

THIRD SERIES FOUNDED BY EDWARD JACKSON

VOLUME 51  
JANUARY-JUNE, 1961

---

## EDITORIAL STAFF

DERRICK VAIL, *Editor-in-Chief*

FRANCIS HEED ADLER, *Consulting Editor*

ALAN C. WOODS, *Consulting Editor*

BERNARD BECKER  
WILLIAM L. BENEDICT  
FREDERICK C. CORDES  
SIR STEWART DUKE-ELDER  
EDWIN B. DUNPHY  
F. HERBERT HAESSLER  
PARKER HEATH  
S. RODMAN IRVINE  
BERTHA A. KLIEN

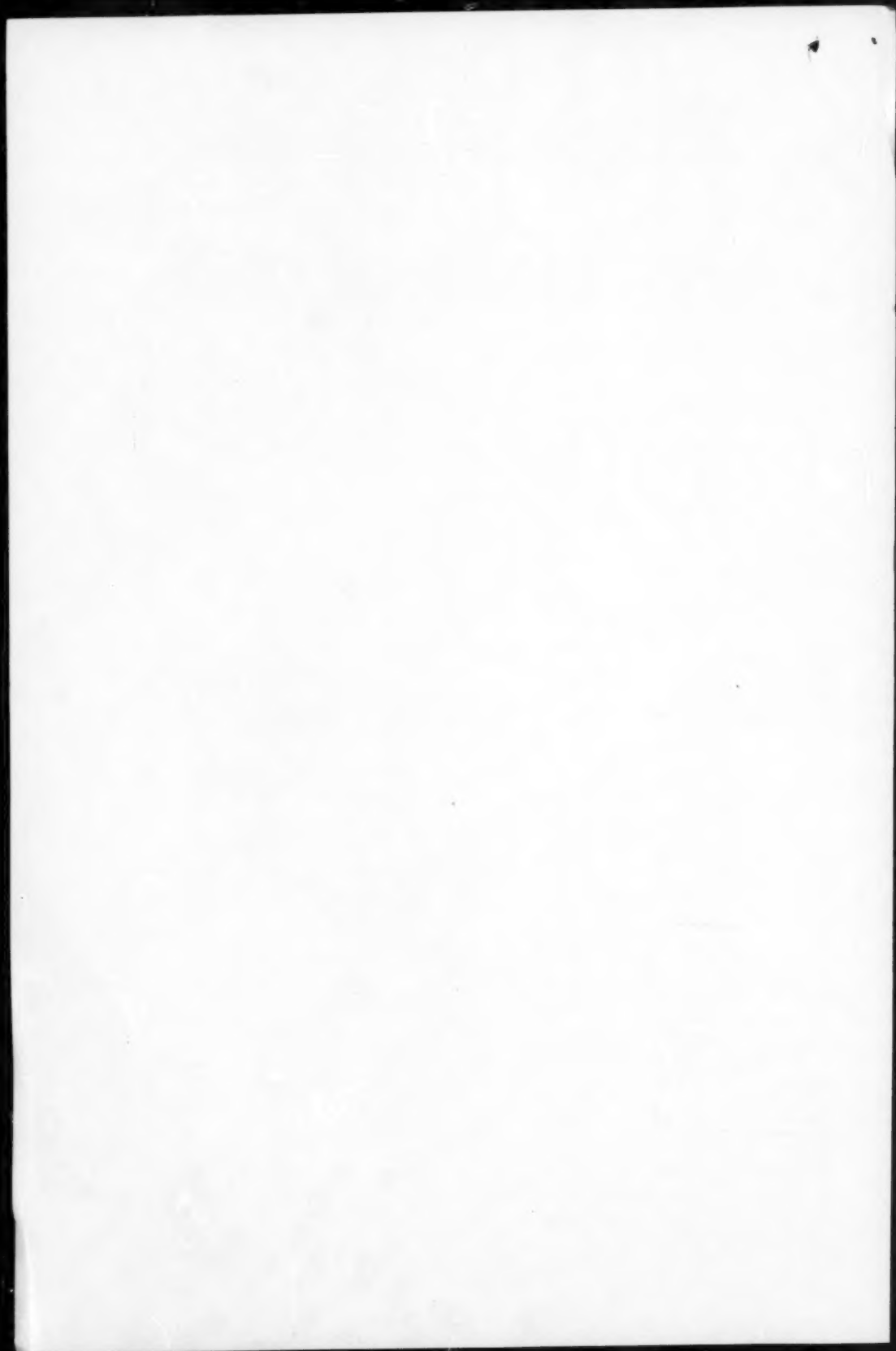
JAMES E. LEBENSOHN  
DONALD J. LYLE  
WILLIAM A. MANN  
P. ROBB McDONALD  
A. EDWARD MAUMENEE  
FRANK W. NEWELL  
JOHN V. V. NICHOLLS  
ALGERNON B. REESE  
PHILLIPS THYGESON

KATHERINE FERGUSON CHALKLEY, *Manuscript Editor*  
MILDRED SKINNER, *Advertising and Business Manager*

## COLLABORATORS

JOSEPH E. ALFANO, *Chicago*; EUGENE M. BLAKE, *New Haven*; SYLVAN BRANDON, *Houston*; JAMES W. BRENNAN, *Buffalo*; WILLIAM C. CACCAMISE, *Rochester, New York*; ALSTON CALLAHAN, *Birmingham*; THOMAS H. F. CHALKLEY, *Chicago*; RAY K. DAILY, *Houston*; IRWIN E. GAYNON, *Milwaukee*; VICTOR GOODSIDE, *Bronx, New York*; BERTHA T. HAESSLER, *Milwaukee*; HARRY HORWICH, *Coral Gables, Florida*; MORRIS KAPLAN, *Denver*; GYULA LUGOSSY, *Budapest, Hungary*; WALTER MAYER, *Richmond, Virginia*; PAUL W. MILES, *Saint Louis*; EDWARD U. MURPHY, *Evansville, Indiana*; GUNTHER K. VON NOORDEN, *Iowa City*; LAWRENCE T. POST, *Saint Louis*; DAVID SHOCH, *Chicago*; JOHN J. STERN, *Utica, New York*; PHILLIPS THYGESON, *San Jose, California*; A. URRETS-ZAVALIA, JR., *Cordoba, Argentina*.

PUBLISHED BY THE OPHTHALMIC PUBLISHING COMPANY  
664 North Michigan Avenue, Chicago 11, Illinois



# SUBJECT INDEX

Explanation: Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

## A

- Abducens paralysis, bilateral, 1315  
congenital, 851
- ABSTRACTS:** 186, 344, 547, 727, 849, 1327
1. Anatomy, embryology and comparative ophthalmology, 186, 344, 727, 1327
  2. General pathology, bacteriology, immunology, 187, 344, 547, 728, 1327
  3. Vegetative physiology, biochemistry, pharmacology, toxicology, 188, 345, 547, 729, 1329
  4. Physiologic optics, refraction, color vision, 190, 348, 551, 735, 1333
  5. Diagnosis and therapy, 193, 348, 551, 737, 1335
  6. Ocular motility, 194, 351, 553, 739, 849, 1343
  7. Conjunctiva, cornea, sclera, 195, 352, 554, 742, 851, 1344
  8. Uvea, sympathetic disease, aqueous, 198, 353, 556, 748, 854, 1346
  9. Glaucoma and ocular tension, 199, 354, 538, 749, 855, 1347
  10. Crystalline lens, 202, 356, 560, 753, 857, 1349
  11. Retina and vitreous, 204, 358, 562, 859, 1349
  12. Optic nerve and chiasm, 206, 362, 564, 862, 1354
  13. Neuro-ophthalmology, 206, 363, 564, 863, 1355
  14. Eyeball, orbit, sinuses, 208, 364, 565, 864, 1357
  15. Eyelids, lacrimal apparatus, 209, 365, 566, 864, 1358
  16. Tumors, 210, 365, 567, 865, 1359
  17. Injuries, 210, 568, 1359
  18. Systemic disease and parasites, 211, 569, 866, 1361
  19. Congenital deformities, heredity, 212, 570, 867, 1363
  20. Hygiene, sociology, education and history, 570, 868, 1364
- ACCOMMODATION:** applanation tonometry and, 330  
dynamics of, 736  
in school children, 1255  
intraocular factors in, 187  
measurement of, 850  
pupil size and, 712
- ACETAZOLAMIDE:** aqueous flow rate and, 1047/175  
effect on aqueous outflow, 550  
effect on venous pressure of eye, 347  
preparation, triturated by Wilzbach technique, 323  
See also under various agents, Diamox, etc.
- Achromycin**, in trachoma, 553
- Acoustic biomicroscopy:** See Ultrasound. See also Echogram
- ACTH**, effect on mitosis corneal epithelium, 731  
in experimental tuberculosis, 1337  
influence on healing corneal ulcers, 710
- Adaptation**, action light on, 1333
- Adaptinal**, influence on ERG, 1341
- Adaptometry**, of retina, 737
- Adenoma**, of pituitary, 565
- Adenovirus:** See under Viruses
- Adie syndrome**, pupil in, 1355
- Adrenaline**, effect on glaucoma, 1348
- Adrenals**, aqueous flow rate and, 1331
- Adrenergic mechanisms**, aqueous outflow and, 549
- After-images**, pleoptics and, 192
- AGE:** carbohydrate metabolism in rat lens and, 859  
dark adaptation and, 1262  
effect on aqueous secretion, 550  
glare and, 348  
influence on ribonucleic acid in lens, 993/121  
Ageing, changes in ribonucleic acid in lens during, 993/121
- Agnosis**, in concomitant strabismus, 849
- Air**, injection of, to prevent synechias in keratoplasty, 320
- Alaska**, keratoconjunctivitis, phlyctenular, at Point Barrow, 585
- Allergy**, of brain, retrobulbar neuritis and, 207  
parallergic phenomenon and, 728  
to lens substances, 731
- Alloxan diabetes**, cataract due to, 753
- ALPHA CHYMOTRYPSIN:** antigenic properties of, 1104/232  
corneal injury due to, 197  
effect on cornea, 598  
effect on zonule of Zinn, 717  
in cataract extraction, 26, 103, 203, 357, 537  
in foreign body extraction, 147

- ALPHA CHYMOTRYPSIN** (continued)  
ocular toxicity of, 190  
stability of, 1332  
See also, Chymotrypsin and Zonulolysis
- AMBLYOPIA:** binocular muscle imbalance and, 553  
ex anopsia, photic driving in, 463  
fixation in, 351  
perceptual time in, 551  
pleoptics and, 654  
strabismus with, 195, 351  
localization in, 851  
tobacco, clinics in perimetry No. 4, 509  
toxic, 170  
treatment of, prediction results in, 735  
American Cancer Society, research funds available, 528  
American Foundation for Blind, research funds available, 528  
American Medical Association, research funds available, 528
- Amino acids**, free in aqueous, 189  
free in interstitial corneal fluid, 189  
incorporation of, into lens proteins, 1012/140
- Amphotericin B**, in fungus infections, 551  
in histoplasmic chorioretinitis, 588
- Amyloidosis**, ocular diagnosis of, 335
- Anemia**, denervation muscles in pernicious, 1343  
ERG in, 866
- Anencephaly**, 1364
- ANESTHESIA:** advances in, 194  
development of ophthalmic, 1  
general, did Ali Ibn Isa use?, 868  
recent developments in, 552  
glycerin ether in, 1340  
local, Balcaina for, 731  
retrobulbar, 845
- Aneurysms**, cerebral, extraocular paresis and, 716
- Angioid streaks**, macular degeneration before, 704
- Angioma**, of orbit, phlebography to diagnose, 365
- Aniridia**, family study of, 867
- Anisocoria**, test for, scheme for Coppes's, 738
- Ankyloblepharon**, filiforme adnatum, 868
- Anophthalmos**, 212, 1364  
unilateral degenerative, 698
- ANTERIOR CHAMBER:** angle, in Marfan's syndrome, 562  
photocoagulation of, 329  
photography of, 1340  
under different magnifications, 1336  
anomalies, in connective tissue disorders, 556  
cilia in, 211  
cysts of, postoperative, 748  
depth, changes in during growth, 187  
effect fibrinolysin on blood in, 1330  
epithelial invasion of, glaucoma after, 857  
foreign body in, 1341  
hemorrhage, after cataract extraction, 357  
treatment of contusion and, 568  
lens: See Intraocular lens  
placenta implanted into, 193  
technique to keep filled, 527
- Anterior segment**, Butazolidin in lesions of, 1339
- Anthranilic acid**, effect on ocular tension, 558
- ANTIBIOTICS:** and steroids, in uveitis, 199  
diffusion of, 1332  
in aspergillosis, 853  
of orbit, 670  
new, 548  
proper use of, 346  
See also under names of various antibiotic agents
- Antibodies**, fluorescent labeled, in herpes simplex, 197  
formation of, in eye, 1328  
in vernal conjunctivitis, 329  
reaction of, in cornea, 187
- Anticoagulants**, in retinal vein occlusion, 456  
in retinal vein thrombosis, 1353
- Antifungal agents**, in aspergillosis of orbit, 670  
See also under Amphotericin-B and under names of various agents such as Mycostatin, Fungicidin, etc.
- Antigen**, reaction in cornea, 187
- Antigenicity**, of cornea, 196

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Antihistamines, in cataract surgery, **1240**  
 Anti-inflammatory agents, **824**  
**APHAKIA:** binocular, vision in, **1335**  
   cataract lenses to correct, **615**  
   correction of, in road traffic, **1365**  
   phenomena in, **1277**  
   implants in, **202**  
   phenomena in correction of, **1277**  
   pupillary block in, **1316**  
   retinal detachment in, **205**  
**AQUEOUS:** albumin level in, in iritis, **1346**  
   Butazolidin in, **346**  
   c-reactive proteins in, in inflammations, **1329**  
   dynamics, effect hypothermia on, **1032/160, 1039, 167**  
   flow, in glaucomatous eye, **201**  
     in hypotonic eyes, **201**  
     rate of, acetazolamide and, **1047/175**  
     adrenals and, **1331**  
     tonography to measure, **549**  
   formation of, effect metabolic inhibitors on, **1329**  
   free amino acids in, **189**  
   Middlebrook-Dubos test of, in iridocyclitis, **627**  
   outflow, adrenergic mechanisms and, **549**  
     in buphthalmia, **212**  
     resistance of, effect acetazolamide on, **550**  
     study of, by tonometry, **856**  
   pilocarpine in, **347**  
   production of, in uveitis, **1343**  
   proteins of, in uveitis, **1331**  
   proteolytic ferments in, **1331**  
   secondary, lactic acid concentration in, **1329**  
   secretion of, age and, **550**  
   Toxoplasma in, in acquired toxoplasmosis, **1327**  
**Aqueous veins, cyclodialysis and, 539**  
   flow in, after compression, **549**  
**Arachnoiditis, 207**  
**Arteriography, in carotid-cavernous fistula, 867**  
**Arteriosclerosis, cerebral, radiography in, 1337**  
   ophthalmoscopic findings in, **1337**  
   retinal, uveitis and, **797**  
**Arteritis, giant cell, 570**  
   ophthalmic, **1362**  
   temporal, **1362**  
**Arthritis, induced by mycobacterial injections, 557**  
   rheumatoid, scleromalacia perforans, scleral granuloma and, **71**  
   steroid therapy and cataracts in, **710**  
**Ascorbate, effect hypothermia on turnover of, 1032/160**  
**Aspergillosis, antibiotics and corticoids in, 853**  
   infections, therapy of, **551**  
   of orbit, **670**  
**ASSOCIATION FOR RESEARCH IN OPHTHALMOLOGY, Inc.**  
   announcement, **1191/319**  
   business session, **1161/289**  
   constitution and by-laws, **1163/291**  
   future meetings, **1189/317**  
   geographic membership list, **1178/306**  
   membership list, **1166/294**  
**Atomic Energy Commission, research funds available, 528**  
**Automobile drivers, depth perception and licensing of, 161**  
**Autopsy eyes, pathology in, 369, 1221**  
**Avian lymphomatosis, uveitis and, 424**

# B

- Balcalina, a new local anesthetic, **731**  
 Behçet's disease, **855**  
 Beta radiation: See under Radiation  
 Biomicroscopy, acoustic, **552, 1203**  
 Bio-Sciences Information Exchanges, research funds available, **529**  
**BLINDNESS:** funds for research and training in, **528**  
   in Germany, **1365**  
   in newborn, ERG to diagnose, **348**  
   keratoplasty in struggle against, **554**  
**Blindspot, enlarged, without papilledema, 863**  
   size fluctuations in, **348**  
**BLOOD:** cells, rate of absorption, **709**  
   coagulated, echogram from, **1203**  
   flow, effect hypothermia on, **1039/167**  
   entoptically visible, **737**

# BLOOD (continued)

- H<sub>2</sub>O content of, ocular tension variations and, **752**  
 in anterior chamber, fibrinolysin and, **1330**  
 pressure, effect on tonography, **751**  
   in retina, in nephrosis and nephritis, **729**  
   in retinal occlusion, **204**  
   of eye, effect acetazolamide on, **347**  
 transfusion, in tuberculosis, **1337**  
 vessels, clinical measurement of ocular, **739**  
   of choroid, electron microscopy of, **1084/212**  
   of conjunctiva, aggregation of, **556**  
   of iris, electron microscopy of, **728**  
   of retina, in nephrosis and nephritis, **729**  
   structure of, between uvea and sclera, **727**  
   volume, intraocular, rigidity of eye and, **202**  
 Bone marrow, transplantation of, in ocular tumors, **785**  
**BOOK REVIEWS:**  
   American Foundation for the Blind: Industrial Arts for Blind Students, **185**  
   Amsler, M., et al.: Lehrbuch der Augenheilkunde, **546**  
   Bahr, G., von et al. (Editors): Documenta Ophthalmologica, **726**  
   Bier, Norman: Correction of Subnormal Vision, **1326**  
   Boyd, Benjamin F.: Audio-Highlights of Ophthalmology, **847**; Highlights of Ophthalmology, **846**  
   Drance, S. M. (Translator): Light Coagulation (by Meyer-Schwickerath), **724**  
   Gardner, E., Gray, D. J., and O'Rahilly, R.: Anatomy: A Regional Study of Human Structure, **184**  
   Garland, Joseph, and Stokes, Joseph (Editors): The Choice of a Medical Career, **725**  
   Giles, G. H.: The Principles and Practice of Refraction, **342**  
   Graham, Milton D.: Social Research and Blindness, **726**  
   Haessler, F. Herbert: Eye Signs in General Disease, **184**  
   Heinzen, Hermann: Die Prophylaktische Behandlung der Netzhautablösung, **1325**  
   Meyer-Schwickerath, Gerd: Lichtkoagulation, **724**  
   Nataf, Roger, Lépine, Pierre, and Bonamour, Georges: The Eye and Virus, **343, 848**  
   Ophthalmological Society of the United Kingdom: Transactions of, **184**  
   Prywes, M.: Medical and Biological Research in Israel, **342**  
   Rintelen, F.: Ophthalmology: A Textbook for Students and Practitioners, **847**  
   Schepens, Charles L. (Editor): Importance of the Vitreous Body in Retinal Surgery with Particular Emphasis on Reoperations, **545**  
   Scholz, Roy O.: A Handbook for Laymen, **546**  
   Taine, Seymour I. (Editor): The National Library of Medicine: Index Mechanization Project, **1325**  
   Teuber, H. L., Battersby, W. S., and Bender, M. B.: Visual Field Defects after Penetrating Missile Wounds of the Brain, **1326**  
   Trevor-Roper, Patrick D.: Lecture Notes on Ophthalmology, **343**  
   Wolstenholme, G. E. W., and O'Connor, M. (Editors): Human Pituitary Hormones, **343**; Haemopoiesis, Cell Production and Its Regulation, **546**  
 Books, making of ophthalmic history, **571**  
 Bowen's disease, **852**  
 Bowman's membrane, histopathology of, **394**  
 Brain, in phakomatoses, **564**  
 Brazil, ophthalmologists in, **571**  
 Brooklyn Ophthalmological Society, **332**  
 Brucellosis, chorioretinitis in, **1347**  
   chromatic fatigue in, **1334**  
 Buphthalmos, aqueous outflow in, **212**  
   in three generations, **864**  
 Burns: See Injuries  
 Busacca deposits, in glaucoma, **558**  
 Butazolidin, in aqueous, **346**  
   in lesions of anterior segment, **1339**  
   prednisone and, **730**  
   retinal hemorrhages and, **1332**

# C

- Campimetry, to study pituitary adenoma, **565**  
 Cancer, treatment of intraocular, **567**

# SUBJECT INDEX

v

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Canthus, operation at outer, 713  
 Carbonic anhydrase, electrophoretic characteristics of, 330  
 inhibitors, new, 734  
 See also under names of various agents, Diamox, etc.  
 Carcinoma, echogram in, 1203  
 Carcinosarcoma, experimental, 709  
 Cardase, in glaucoma, 200  
 Carotid, artery, ligation of, effect hypothermia on, 1039/167  
 occlusion of, 866  
 thrombosis of, internal, 1356  
 —cavernous fistula, 551  
 arteriographic findings in, 867  
 ophthalmodynamometric findings in, 867  
 pulsating exophthalmos in, 1357  
 Carrageenin, granuloma of cornea, 554  
 CATARACTS: alloxan diabetic, 753  
 congenital, mongolism with, 753  
 surgery of, 560  
 contributions basic science to study of, 164  
 dinitrophenol-induced, 160  
 EXTRACTION: after glaucoma operations, 358  
 alpha chymotrypsin in, 26, 103, 357, 537  
 anterior chamber hemorrhage after, 357  
 Barraquer technique in, 562  
 expression method for, 858  
 glaucoma after, 356, 858  
 in infants, 561  
 limbal-conjunctival flap in, 561  
 scleral resection before, in high myopia, 1334  
 separation lids in, 35  
 traumatic, after foreign body, 147  
 with modified Smith technique, 26  
 formation, influence ribonucleic acid of lens on, 993/121  
 galactose, formation of, 548  
 in rheumatic arthritis, steroid therapy and, 710  
 lenses, conoid to correct aphakia, 615  
 photocoagulation in, 337  
 posterior brown, 357  
 roentgen, 858  
 secondary, giant cells in resorption lens fibers in, 1306  
 senile, 1349  
 Debenal to treat, 859  
 glaucoma and, 858  
 sulfonamides in, 203  
 —creous loss in surgery of, 753  
 —hydrils and development of, 754  
 surgery of, 202  
 advances in, 203  
 antihistamines in, 1240  
 digital compression preceding, 560, 1237  
 keratitis bullosa after, 743  
 suture for, 1243  
 zonulolysis in, 203  
 follow-up examinations after, 753  
 See also under Zonulolysis  
 Catarrah, vernal, surgery of, 1344  
 Catarrhal fever, transient myopia with, 191  
 Catgut sutures, in corneal surgery, 118  
 Cats, cross-eyed Siamese, study of, 330  
 eyes of, in ophthalmic research, 1327  
 Central nervous system, in Besnier-Boeck-Schaumann disease, 1355  
 Cephalosporium infection of conjunctiva, 853  
 Cerebellar symptoms, in bilateral nuclear ophthalmoplegia, 152  
 Cerebral radiography, in arteriosclerosis, 1337  
 Charcot-Marie-Tooth disease, optic nerve atrophy and, 561  
 Chemistry, physiologic, a review, 549  
 Chemotherapy, in ocular tumors, 785  
 CHILDREN: chloral hydrate as sedative for, 834  
 metabolic disease in, eye signs of, 536  
 ocular rigidity in, 752  
 optic neuritis in, 363  
 school, accommodation in, 1255  
 visual tests of, 538, 571  
 Chloral hydrate, pediatric sedative, 834  
 Cholesterol, glaucoma and serum, 202  
 Choline, eye signs deficiency of, 731  
 Cholinesterase, anti-, in myasthenia gravis, 709  
 inhibitors, 885/13  
 neutralization of, inhibitor of, 711  
 ocular, 885/13  
 Chorioretinitis, due to brucellosis, 1347  
 Jensen's 360  
 histoplasmic, amphotericin-B in, 588  
 Chorioretinopathy, serous, extrabulbar mechanism in pathogenesis of, 231  
 CHOROID: after administration of Ditizone, 190  
 blood vessels of, electron microscope to study, 1084/212  
 cells and supporting structures of, electron microscope to study, 1057/185  
 coloboma of, retinal detachment and, 860  
 detachment of, in fundus diagnosis, 333  
 effect diathermy on, 1341  
 effect photocoagulation on, 1341  
 hemangioma of, 353  
 light energy loss in, 345  
 lymphosarcoma of, 1294  
 melanoblastoma of, 1346  
 melanoma of, 354, 1296, 1363  
 retinal involvement in, 517  
 nerves of, electron microscope to study, 1072/200  
 Choroideremia, 854  
 Choroidoscopy, supplementing ophthalmoscopy, 833  
 Chymotrypsin, in ophthalmic surgery, 103  
 intramuscular, in strabismus surgery, 106  
 See also Alpha chymotrypsin  
 Ciliary arteries, particulate formations about, 199  
 CILIARY BODY: cysts of, 198  
 electric potential of, 548  
 epithelium of, electron microscope to study, 727  
 iris and, electric resistance of, 1027/155  
 organic anions of, transport of, 1047/175  
 Ciliary epithelium, electron microscope to study, 1327  
 nonpigmented, membrane properties of, 1118/246  
 Ciliary process, synthesis ATP and ADP in, 711  
 Cilia: See Eyelashes  
 Cilium, imbedded, granuloma due to, 706  
 Cilioretinal artery, obstruction of, 1351  
 Coats' disease, echogram in, 205  
 steroids in, 1351  
 Coccidiomycosis, in dog, 569  
 Cocos Islands, eye disease in, 1229  
 Cogan's syndrome, 353  
 Colistin, in Pseudomonas corneal infections, 391  
 in Pseudomonas corneal ulcers, 743  
 Collagen, in scorbutic guinea pigs, 1332  
 of cornea, 730  
 fibrils of, 1330  
 Collyrium, corneal stippling after, 723  
 Coloboma, of choroid, retinal detachment and, 860  
 Color blindness, congenital total, 551  
 ERG in, 191  
 to diagnose, 192  
 Color fatigue, in brucellosis, 1334  
 Color mechanisms, in retinal disease, 712  
 Color perception, physiopathology of, 736  
 traffic and, 1333  
 Color vision, defects in, quantitative diagnosis of, 798  
 tests for, evaluation of, 298  
 for office practice, 175  
 Ishihara, 340  
 Commonwealth fund, 529  
 Compression, digital preceding cataract surgery, 1237  
 CONGENITAL ANOMALIES: anophthalmos, 698  
 by X-rays, in mice, 1328  
 hyperplasia of semilunar fold, 570  
 jaw-winking reflex, 570  
 morphology of eye in, 1364  
 of anterior chamber, 556  
 of optic nervehead, 362  
 of posterior cornea, 525  
 CONJUNCTIVA: a review, 865  
 adenovirus isolated from, 728  
 aggregation in vessels of, 556  
 A/V ratio in, in diabetes, 1344  
 blood vessels of, in diabetes, 1362  
 extirpation after enucleation, 227  
 fluid of, in newborn, 555  
 granuloma of, due to imbedded cilium, 706  
 infection of, due to cephalosporium, 853  
 lipoma of, 210  
 lymphangiectasis of, 554  
 lymphangiomas of, 481

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

# CONJUNCTIVA (continued)

- melanotic tumor of, 567
- sac, parotid duct transplantation into, 197
- peritoneal graft in retracted, 364
- Schwartzman phenomenon of, 1330
- tuberculum of bulbar, 748
- virus diseases of, 1344
- toluidine blue test in, 853
- Conjunctivitis, *Staphylococcus* resistant, **819**
- uveine in, 738
- vernal, antibodies in, 329
- Connecticut, glaucoma screening in, 714
- Contact lenses, 1343
  - changes due to, 196, 1344
  - corneal, clinical investigation of, **675**
  - micrometric linear kerato-pupillometry, in fitting, **1273**
  - effect on corneal lactic acid, 711
  - for diagnosis retinal periphery, **413**
  - for fundus diagnosis, **412**
  - low-vacuum diagnostic, **410**
  - microcorneal, 1333
- Contrast phenomena, nature of, **1098/226**
- Convergence, measurement of, 850
- Copper sulfate, in herpetic keratitis, 160
- Corectopia, 354
- CORNEA: a review, 854
  - antigen and antibody reaction in, 187
  - antigenicity of, 196
  - basement membrane of, fine structure of, **278**
  - bending and buckling of, in tonometry, 328, 856
  - cell production and migration in, 345
  - changes, due to contact lens, 196
    - during long-term glycerol freezing, **579**
  - collagen of, 730
  - fibrils of, 1330
  - conical: See *Keratoconus*
  - curvature, effect pterygium surgery on, 352
  - measurement of, in fitting contact lenses, **1273**
  - developmental anomalies of, **525**
  - dysgenesis of, 1363
  - dystrophies, 852
    - dermatoses and, 851
    - hereditary fleck, **275**
    - histopathologic differentiation of, **394**
  - effect alpha chymotrypsin on, **598**
  - electrophoresis of, 734
  - endothelium, cell division and growth of, **955/83**
    - chromosomal transformation in, 710
    - tritium-labeled thymidine in, 197
  - epithelium, acid-soluble phosphorus in, 1329
  - dendritic keratitis and, 854
  - electric resistance of, 751
  - electron microscopy to study, 727
  - fine structure of, **278**
  - in keratitis bullosa, 196
  - light transmission of, 192
  - mitosis of, effect ACTH on, 731
  - foreign bodies of, removal nonmagnetic, 568
  - grafts, healing of, **1281**
  - granuloma of, 554
  - herpetic infections of, 1318
  - infections of, colistin in *Pseudomonas*, **391**
  - infiltration of, 555
  - injuries to, due to alpha chymotrypsin, 197
    - due to cortisone, 1346
    - due to echinoderm spine, 196
  - innervation of, 852
  - interstitial fluid of, free amino acids of, 189
  - lactic acid of, effect contact lens on, 711
  - lime burn of, 852
  - lipids of, 729
  - metabolism of, effect beta radiation on, 548
  - morphology of, silver stains to study, **1051/179**
  - necrosis, effect vitamin A and panthenol on, 555
  - opacities, in cryoglobulinemia and reticulohistiocytosis, 853
  - paracentesis of, in eye burns, 1359
  - perforation of, due to thermal burn, 743
  - physiology of, effect intralaminar plastic membranes on, **1146/274**
  - proteins of, electrophoretic study of, **314, 730**
  - rigidity of, study of, 744
  - stippling of, after collyrium, **723**

# CORNEA (continued)

- surgery of, absorbable sutures in, **118**
- collagenous sutures in, 1339
- symposium on, 745
- swelling of, due to EDTA, 734
- thickening of, due to trachoma pannus, 556
- thickness of, variations in, 714
- ulcer, colistin in *Pseudomonas*, 743
- hypopyon, keratoplasty in, 555
- influence ACTH on healing of, 710
- influence pyrogen on healing of, 710
- vascularizing injuries and, 353
- viability of, at low temperatures, 732
- viral diseases of, toluidine blue test in, 853
- wounds of, effect endothelial curettement on healing of, **930/58**
- Corneal contact lenses: See *Contact lenses*
- Corneal transplantation: See *Keratoplasty*
- CORRESPONDENCE:
  - Aid to Cuban ophthalmologists, **722**
  - Chymotrypsin in dendritic ulcer, **183**
  - Corneal-scleral needles wanted, **544**
  - Correction, **183, 723**
  - Efficiency of Ishihara test, **340**
  - Herpes simplex keratitis, **182**
  - Insurance forms and medical terminology, **544**
  - Modified iridencleisis, **724**
  - Negative preoperative culture and postoperative infection of the eye, **723**
  - Ophthalmic library wanted, **845**
  - Orinda vision study, **339**
  - References omitted, **183**
  - Retrolubular anesthesia, **45**
  - Schlemm's canal in rabbits, **1323**
  - Stippling of the cornea following use of collyrium eye-wash, **723**
- Corticosteroids, in aspergillosis, 853
  - in herpetic keratitis, 52
  - effect on, **945/73**
  - in infections, **336**
- Cortisone, effect on retrolubular tissues, 734
  - injury cornea by, 1346
- Cotton wool patches, 1353
- C-reactive proteins, in inflammations, 346, 1329
- Credé's prophylaxis, 555
- Critical fusion frequency, 1335
- Cryoglobulinemia, corneal opacities in, 853
- Cul-de-sac, cysticercus of, 1362
- CVP, in hemangiomas, **141**
- Cybernetic disturbances, eye symptoms in, 193
- Cyclodialysis, aqueous veins and, 539
  - long-term results of, 201
- Cyclodiatomy, with scleral flap, 750
- Cyclogyl®, influence on tonography, **781**
- Cycloplegics, mydriatic-Roche, 733
- Cystic fibrosis of pancreas, eye findings in, 1361
- Cysticercus, of cul-de-sac, 1362
  - of vitreous, removal of, 1350
  - retinal detachment due to, 361
- CYSTS: juxtatamural, **517**
  - of anterior chamber, postoperative, 748
  - of ciliary body, 198
  - of iris, 199
  - of Krause's gland in trachoma, 556
  - of sclera, traumatic, 743
  - pars plana, in autopsy eyes, **1221**
- Cytochrome oxidase, activity in retina, 189

# D

- Dacryocystorhinostomy, 365, 566
  - bone trephine for, 1359
  - external, review of 56 cases, **514**
- Dark adaptation, age and, **1262**
  - study of, 737
- Debenal, to treat senile cataract, 859
- Delta Gamma, research funds available, 529
- Denmark, incidence strabismus in, 740
- Department of Air Force, research funds available, 529
- Department of Army, research funds available, 529
- Department of Navy, research funds available, 529
- Depth perception, tests for, in licensing auto drivers, 161

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Dermatoses, corneal dystrophy and, 851  
 Descemet's membrane, histopathology of, **394**  
**DIABETES:** alloxan, cataract due to, 753  
     retinal changes in, 563  
     A/V ratio in conjunctiva in, 1344  
     blood vessels nailed in, 1362  
     blood vessels conjunctiva in, 1362  
     juvenile, hypophysectomy in, glaucoma and, 559  
     ocular lesions in, 211  
     retinal and vascular lesions in, 1352  
     vitamin E in, 1342  
 Diabetic ophthalmoplegia, pupil in, 364  
**DIABETIC RETINOPATHY:** **1123/251**  
     Duraboline in, 206  
     electron microscope to study, 709  
     fructose in, 861  
     Nortestosterone in, 1352  
 Diamox, transient myopia after, 1333  
 Diamox-S<sup>m</sup> localization in eye, **87**  
 Diathermy, effect on retina, choroid and sclera, 1341  
     in intraocular tumor, 536  
     in retinal detachment, 1352  
     surface, effect on scleral rigidity, 554  
 Diencephalon, ocular tension and, 855  
 Diktyoma, 865  
 Diplopia, in lethargic patient, 1316  
     TV to treat, 851  
 Disability compensation, 1359  
 Disease of eye, codification of, 570  
     which are disappearing, 1365  
 Distensibility of eye, temperature and, 160  
 Ditizone, choroid after, 190  
     retina after, 190  
     toxicity of, 188  
 Divergence, excess, 195  
 DMO (5,5-dimethyl-2,4-Oxazolidinedione), in ocular and  
     cerebrospinal fluids, **969/97**  
 Duane's retraction syndrome, **1257**  
 Duraboline, in diabetic retinopathy, 206  
 Dyscopia, symptom of status dysraphicus, 1355  
 Dysplasia, multiple, 1363
- E**
- Echinoderm, corneal injury due to spine of, 196  
**ECHOGRAM:** in Coats' disease, 205  
     in diagnosing ocular diseases, 1341  
     in intraocular tumors, **1203**  
     measuring distances in, 1331  
     See also Ultrasound  
 Echthiophate, in glaucoma, **695**  
 Ectropion, of pigment epithelium, 1314  
 Edema, in inflammations, 362  
**EDITORIALS:**  
     Asia-Pacific Academy of Ophthalmology, **178**  
     Congress of the Japanese Ophthalmological Society, **180**  
     Corticosteroids for infections, **336**  
     "Investigative Ophthalmology," **1321**  
     Medicine and the law, **339**  
     The new ophthalmic hospital of St. John in Jerusalem,  
         **540**  
     The retina in severe hemorrhage, **721**  
     What is the issue?, **718**  
     Wilmer meeting, **843**  
 EDTA (ethylenediamine tetra-acetate), corneal swelling due  
     to, 734  
 Electric, potential, of ciliary body, 548  
     transcorneal, 548  
     resistance, of corneal epithelium, 751  
 Electrocoagulation, nonperforating, sclera in, 1340  
 Electromyography, 206, 539  
     extraocular, in chronic animals, **1157/285**  
     in Moebius syndrome, 1356  
**ELECTRON MICROSCOPY:** of blood vessels of iris, 728  
     of choroid, **1057/185, 1072/200, 1084/212**  
     of ciliary epithelium, 727, 1327  
     of corneal epithelial cells, 727  
     of pigment epithelium, 735  
         retinal, 728  
     of vitreous, 204  
     of zonular fibers, 190  
     to study corneal basement membrane, **278**  
**ELECTRON MICROSCOPY (continued)**  
     to study corneal epithelium, **278**  
     to study diabetic retinopathy, 709  
     to study melanoblastoma, 210  
     to study retinal rods, 563  
     to study sympathetic ophthalmia, 198  
 Electronystagmography, 1336  
 Electro-oculography, 538  
     in nystagmus, 352  
     in ocular paralysis, 352  
     potential level changes in, 345  
 Electro-ophthalmodynamometer, 738  
 Electrophoresis, immune of lens, 347  
     of cornea, 734  
     proteins, 730  
     of sclera, 734  
     of subretinal fluid, in retinal detachment, 205  
     to compare hyaluronidase, subtilin, carbonic  
         anhydrase and lacrimal proteins, 330  
     to study corneal proteins, **314**  
     to study lens proteins, **305**  
**ELECTRORETINOGRAM:** after hallucinogenic agents,  
     548  
     double-flash test, 1342  
     in anemia, 866  
     in batrachians, 186  
     in color blind, 191  
     in glaucoma, 856  
     in macroglobulinemia, 866  
     in reptiles, 186  
     in retinal surgery, 360  
     in retinitis pigmentosa, 563  
     in siderosis, 733  
     influence adaptational on, 1341  
     lens for, **416**  
     to diagnose blindness in newborn, 348  
     to diagnose color blindness, 192  
 Elks Club, research funds available, 530  
 Embryotoxin, posterior, **148**  
 Endophthalmitis, mycotic, 208  
 Enophthalmos, myxedema in, 570  
     muscular factors in, 1357  
 Entropion, cicatricial, surgery for, 566  
     of lower eyelid, **1312**  
     tarsotomy to correct, 209  
 Enucleation, extirpation conjunctiva, tarsi and lid margins  
     after, **227**  
     implant for, 565  
 Enzymatic zonulolysis: See Zonulolysis  
 Ependymoma, of cerebellum, 565  
 Episclera, nodules of, in erythema nodosum, **60**  
 Epithelioma, of eyelid, 352  
 Epithelium, pigment, ectropion of, 1314  
 Erisophake, electric, 552  
 Erythema nodosum, episcleral nodules in, **60**  
 Eserine, to diagnosis and treat strabismus, 740  
 Eskimos, phlyctenular keratoconjunctivitis in, **585**  
 Estropia, early treatment of, importance of, **634**  
 Evisceration, implant for, 565  
     intrasceral, 1335  
     scleral, 1314  
 Exenteration, and repair of orbit, **217**  
     of orbit, muscle transplantation after, 208  
**EXOPHTHALMOS:** muscular factors in, 1357  
     pulsating, in carotid-cavernous fistula, 1357  
     unilateral, 208  
 Extirpation, after enucleation, **227**  
**EYE:** diseases of, codification of, 570  
     in Cocos Islands, **1229**  
     in Marshall Bennett Islands, **1229**  
     hazard, a shipboard, 1359  
     in phakomatoses, 564  
     of cats, in ophthalmic research, 1327  
     position of, influence extraocular muscles on, 1358  
     protection, against small high-speed missiles, **80**  
     sections, polyester resin to prepare, 348  
 Eye-dressing tray, **158**  
 Eyedrops, assessing sting of, 189  
     Tosmilen, 738  
     Uveline, 738  
 Eyelashes, imbedded, granuloma due to, **706**  
     in anterior chamber, 211

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

**EYELIDS:** a review, 865  
 cancer of, X-ray therapy in, 365  
 construction fold of upper, 612  
 entropion of lower, 1312  
 epithelioma of, 352  
 fibroma of, 209  
 lymphangiomas of, 481  
 margins, extirpation after enucleation, 227  
 plastic surgery of, 835  
 melanotic tumor of, 567  
 nevi divided between, 1358  
 separation of, in cataract extraction, 35  
 vaccinia of, immune globulin in, 209  
**EYES:** autopsy, pathology in, 369, 1221  
 diurnal tension variation in, 355  
 pars plana cysts in autopsy, 1221  
 perceptual time in normal and amblyopic, 551

## F

Face, lymphangiomas of, 481  
 Facial diplegia, Moebius syndrome and, 863  
 Facial pain, 349  
 Fatigue, chromatic, in brucellosis, 1334  
 Fibrinolysin, effect on blood in anterior chamber, 1330  
 in retinal vein occlusion, 456  
 Fibroma, of eyelids, 209  
 Filariasis, ocular, 569  
 Fisher syndrome, 701  
 Fixation, development of, in man, 1335  
 eccentric, in strabismus, 192  
 in strabismus and amblyopia, 351  
 reflexes, in infant, 163  
**FLUIDS:** autonomiclike property of ocular, 710  
 cerebrospinal into vitreous, in hemophthalmos, 1338  
 conjunctival, in newborn, 555  
 distribution of DMO in ocular and cerebrospinal, 969-97  
 fluorescence of, 345  
 Fluorometry, uveitis and, 354  
 Folic acid, deficiency, eye manifestations of, 1332  
**FOREIGN BODIES:** bone-free localization of, 421  
 extraction, alpha chymotrypsin in, 147  
 in anterior chamber, 1341  
 intraocular, management of, 568  
 nonmagnetic, 211  
 of cornea, removal of nonmagnetic, 568  
 Foster-Kennedy syndrome, in tuberculous meningitis, 862  
 Fractures: See Injuries  
 Friedenwald Award, comments on acceptance of, 877/5  
 Friedenwald Memorial Lecture, 885/13  
 Fructose, in diabetic retinopathy, 861  
 Fulbright Fellowships, research funds available, 530  
 Funds, sources of, for research and training, 528  
**FUNDUS:** appearance of, in hydraencephaly, 267  
 camera, modification of Zeiss, 553  
 changes, in lupus erthematosus, 867  
 diagnosis, choroidal detachment and, 333  
 contact lens for, 412  
 diseases of, 359  
 in Oguchi's disease, 243  
 photomicrometry of, to study retinal veins, 860  
 sarcoidosis of, 713  
 Fungus, endophthalmitis due to, 208  
 infections, of conjunctiva, 853  
 Griseofulvin in, 743  
 therapy of, 551  
 Furaltadone, sixth nerve palsy due to, 1332

## G

Galactose, cataract, 548  
 Gelfilm, in section lacrimal gland ducts, 1290  
 seton, in glaucoma, 717  
 Geographic ophthalmology, 1229  
 Germany, blindness in, 1365  
 Gifford, Sanford R., Lecture, 1  
 Glare, age and, 348  
**GLAUCOMA:** a review, 559  
 after cataract extraction, 356, 858  
 after epithelial invasion of anterior chamber, 857  
 after retinal vein occlusion, 1348  
 anatomic variations of iris and, 666

**GLAUCOMA (continued)**

aqueous flow in eyes with, 201  
 Busacca deposits in, 558  
 Cardrase in management of, 200  
 cataract and, 858  
 congenital, operation for, 356  
 cyclodialysis for: See Cyclodialysis  
 diurnal variations in, 355  
 echothiophate in, 695  
 effect adrenaline on, 1348  
 effect low frequency waves on, 750  
 effect Novocaine on, 1348  
 effect oxygen on, 1348  
 ERG in, 856  
 excavation of, 200  
 facets of, 1347  
 functional symptoms in, 355  
 George Young threshold test in, 1348  
 hemorrhage, iron compounds in eye and, 201  
 illumination and, 856  
 in Central and South Pacific, 253  
 in ethnic groups in Israel, 861  
 in hypophysectomized juvenile diabetics, 559  
 in Negroes, 356  
 in younger age groups, 559  
 influence sinusitis on, 749  
 Krukenberg's spindles in, 324  
 mass screening for, technique and organization, 248  
 miotic control of, 781  
**OPERATIONS:** 356  
 cataract extraction after, 358  
 fistulizing, late infections after, 750  
 for congenital, 356  
 Gelfilm seton in, 717  
 phospholine iodide in, 200  
 primary, surgery of, 751  
 pseudo-, 1364  
 retinal vein occlusion and, 361  
 screening for, in Connecticut, 714  
 secondary, after retinal artery occlusion prognosis in, 793  
 iris atrophy and, 356  
 serum cholesterol and, 202  
 simple, miotics in, 751  
 subjective symptoms of, 751  
 surgery of, developments in, 559  
 tests, water-provocative, evaluation of, 451  
 mechanism of, 601  
 Tosmilen in, 558  
 trabeculectomy in, 623  
 tubular fields due to, 716  
 urea in, 355  
 X-rays in, 1347  
 Glioma, of optic nerve, 363, 863  
 Globulin, immune, in vaccinia of eyelid, 209  
 Goniotomy, lens for, 422  
 Gonioscopy, direct and indirect image, 423  
 lens for, 413, 415  
 of anterior chamber angle, in Marfan's syndrome, 562  
 Goniotomy, lens for, 422  
 instrument for, 527  
 Granuloma, of conjunctiva, due to imbedded cilium, 706  
 of cornea, 554  
 of orbit, 1357  
 of sclera, in rheumatic arthritis, 71  
 pine-pollen, of iris, 941/69  
 Griseofulvin, in mycotic keratitis, 743  
 Groenblad-Strandberg syndrome, 704  
 Guild Prescription Opticians, research funds available, 530

## H

Haidinger's brushes, in pleoptics, 168  
 Hamartoma, of hypothalamus, papilledema with, 865  
 Heed Ophthalmic Foundation, research funds available, 530  
 Hemangioma, of choroid, 353  
 Hemangiomas, 141  
 Hematoma, subdural, 863  
 diagnosis and localization, 1341  
 Hemianopia, pupillography in, 206  
 Hemophilia, retrobulbar hemorrhage in, 568  
 Hemophthalmos, therapy of, 1338

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- HEMORRHAGE:** anterior chamber, after cataract extraction, 357  
 due to contusion, treatment of, 568  
 expulsive, during retinal detachment surgery, 264  
 in periphlebitis retinae, weather and, 859  
 in vitreous, 335  
 of conjunctiva, 554  
 of optic nerve sheath, 862  
 of vitreous, oxygen insufflation in, 1360  
 preretinal, 1352  
 retina and, 721  
 retrobulbar, in hemophilia, 568  
 Verhoeff sclerotomy, in expulsive, 264  
**Hemostasis**, technique to aid, 527  
**Heparin**, in macular degeneration, 362  
 in retinal artery occlusion, 563  
 in senile macular degeneration, 57  
**HEREDITY:** buphthalmos and, 864  
 in aniridia, 867  
 in fleck dystrophy of cornea, 275  
 in retinitis pigmentosa, 204  
 in retinoblastoma, 1352  
 in retinoschisis, pedigree of family, 1193  
**HERPES:** infections of cornea, 1318  
 simplex, effect corticosteroids on keratitis due to, 945/73  
 fluorescent labeled antibodies in, 197  
 isolation and cultivation of virus of, 188  
 keratitis: See under Keratitis  
 susceptibility fibroblasts to, 748  
 virus, inactivation by chemical agents, 42  
**Heterophoria**, retinal correspondence and, 740  
**Hexokinase**, activity in beef retina, 547  
 in retina, 1330  
**Hirschler**, Ignác, 571  
**Histoplasmosis**, chorioretinitis due to, amphotericin-B in, 588  
**Hyaloid** membrane, adhesions lens capsule to, 511  
**Hyaluronic acid**, as vitreous implant in retinal detachment, 564  
**Hyaluronidase**, electrophoretic characteristics of, 330  
**Hydraencephaly**, ocular signs of, 267  
**Hydrocortisone** ointments, 349  
**Hydrodiuril**, transient myopia and retinal edema during therapy with, 1329  
**Hyperlipemia**, retina in, 358  
**Hypersensitivity**, maternal, lens changes due to, 949/77  
**Hypertension**, retinal arterial lesions in, 1353  
**Hypoparathyroidism**, 866  
**Hypophthalmus**, papilledema with hamartoma of, 865  
**Hypothermia**, effect on aqueous dynamics, 1032/160, 1039/167
- I**
- Illumination**, effect on pupillary reflexes, 644  
 influence on glaucoma, 856  
**Iminodipropionitrile**, lathyrism due to, 363  
**Immunologic** testing, in uveitis, 329  
**IMPLANTS:** auricular cartilage, in retinal detachment, 1351  
 cutaneous, in retinal detachment, 1350  
 for enucleation and evisceration, 565  
 intrascleral, evisceration with, 1335  
 orbital, in eviscero-enucleation, 1357  
 polyvinyl, tissue response to, 1200  
 scleral, evisceration with, 1314  
**Inclusion bodies**, staining technique for, 551  
**Infants**, cataract extraction in, 561  
 fixation reflexes in, 163  
 inclusion conjunctivitis in, isolation viruses from, 329  
**INFECTIONS:** chlorhexidine in, 1330  
 corticosteroids for, 336  
 diaminodiphenylsulphone in, 1330  
 herpes, of cornea, 1318  
 in ophthalmic surgery, 1336  
 late, after fistulizing operations, 750  
 postoperative, negative preoperative cultures and, 723  
 prophylaxis of, in eye surgery, 1342  
 Pseudomonas of cornea, colistin in, 391  
**Inflammations**, c-reactive proteins in, 346, 1329  
 vitreous opacities and edema in, 362
- INJURIES:** burns, corneal paracentesis in, 1359  
 treatment of, 1360  
 chemical, of cornea, 852  
 corneal perforation due to thermal burn, 743  
 corneal vascularization and, 353  
 due to power lawn mowers, 210  
 foreign body: See Foreign bodies  
 fracture, blowout of orbit, 364  
 nonperforating, treatment of, 1361  
 of cornea, due to alpha chymotrypsin, 197  
 due to cortisone, 1346  
 due to echinoderm spine, 196  
 scleral cyst due to, 743  
 treatment of ocular, 1360  
 with small high-speed missiles, protection against, 80  
 Institute of International Education, research funds available, 530  
**INSTRUMENTS:** camera, Zeiss fundus, 553  
 convex plunger, for tonometer, 738  
 diagnostic, 176  
 contact lenses, 410  
 electric erisophake, 552  
 electrode, for diathermy, 816  
 electronic ophthalmodynamometer, 194, 738  
 eye-dressing tray, 158  
 for goniotomy, 527  
 lens for, 422  
 handle for electro-keratotomy, 524  
 mobile operating table, 1338  
 of Goldmann Günther, to measure visual acuity, 194  
 speculum, for aspiration, 552  
 stand for donor eye, 1340  
 standardized Schirmer tear test kit, 840  
 suture-loop retractor, 520  
 tonometer, with convex plunger, 857  
**Insurance** forms, medical terminology and, 544  
**INTRAOCULAR LENSES:** in aphakia, 1277  
 review of three cases, 858  
 Ridley, results in 39 cases, 1342  
 10-year report, 1334  
 vision with, 857  
**Iodine**, migration into ocular tissue, 729  
 penetration in iontophoresis, 345  
**Iodo-niacin**, clinical experience with, 1339  
**Iontophoresis**, copper sulfate, in herpetic keratitis, 160  
 iodine penetration in, 345  
**Iridectomy**, basal, anatomic variations of iris and, 666  
 classification and surgical technique, 261  
**Iridenceleisis**, modified, 724  
 sympathetic ophthalmia after, 829  
**Iridocyclitis**, Middlebrook-Dubos test in, 627  
**IRIS:** action potential of, 198  
 anatomic variations of, 666  
 atrophy, in secondary glaucoma, 356  
 ciliary body and, electric resistance of, 1027/155  
 cyst of, 199  
 dysgenesis of, 1363  
 electron microscopic study blood vessels of, 728  
 in mongoloids, 854  
 pine-pollen granuloma of, 941/69  
 response of, to photic stimulation of retina, 711  
 structure, of primates, 344  
**Iritis**, albumin level in aqueous in, 1346  
**Iron**, compounds in eyes, hemorrhagic glaucoma and, 201  
**Ishihara** test, efficiency of, 340  
**Israel**, glaucoma in ethnic groups of, 861
- J**
- Jaw-winking reflex**, 570
- K**
- Kanamycin**, 733  
**KERATITIS:** after prednisolone, 197  
 bullosa, after cataract surgery, 743  
 corneal epithelium in, 196  
 dendritic, corneal epithelium in, 854  
 filamentary, beta radiation in, 1292  
 herpetic, copper sulfate in, 160  
 corticosteroids in, 852  
 silver nitrate in, 182

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

# KERATITIS (continued)

- herpes simplex, effect corticosteroids on, **945/73**
- isolation herpes virus from, 188
- mycotic, Griseofulvin in, 743
- recurrent chronic, keratoplasty in, 747
- virus isolation in rare, 353
- KERATOCONJUNCTIVITIS:** epidemic. adenoviruses in, 747
- immunity after, 744
- pharyngoconjunctival fever and, 744
- precipitin reaction in, 728
- phlyctenular, at Point Barrow, Alaska, **585**
- Uveline in, 738
- Keratomalacia, in adults, 747
- KERATOPLASTY:** air injection to prevent synechiae in, 320
- chymotrypsin in, **103**
- grafts, after long-term glycerol freezing, **579**
- biologic response to homo-, 745
- enzymochemical studies on, 731
- healing of, **1281**
- hetero-, 1345
- serologic studies of, 742
- in recurrent chronic keratitis, 747
- in struggle against blindness, 554
- indication for, uncommon, 352
- instrumentation and technique, 746
- intracorneal lamellar, 349
- jaundiced eyes in, 709
- lamellar, 335
- cutting grafts for, **512**
- in hyponon corneal ulcers, 555
- indications for, 852
- lyophilized cornea, in intracorneal lamellar, 1345
- penetrating, problems of, 197
- precipitin test in, 748
- preservation tissue for, 853
- preserved cornea in, 853
- stand for donor eye, 1340
- symposium on, 745
- therapeutic, 746
- Keratoses, dermatoses and, 851
- Klippel-Trenaunay syndrome, 1362
- Knight Templar Eye Foundation, Inc., research funds available, 531
- Krause's gland, trachomatous cyst of, 556
- Krukenberg's spindles, glaucoma with, **324**

# L

- LACRIMAL APPARATUS:** a review, 865
- duct, stenosis of, 865
- gland, aberrant tissue of, 567
- ducts of, Gelhof in section of, **1290**
- fluid, inflammatory factors in, 566
- See also Tears
- passages, restoration of, 209
- punctum, eversion of, operation for, 210
- sac, papilloma of, **1303**
- report on 455 operations of, 210
- Lanthosol, for vascular spasm, 739
- Lathyrism, due to IDPN, 363
- Lawn mowers, eye injuries due to, 210
- Leber's disease, 862
- Lectures, Sanford R. Gifford, 1
- LENS:** allergy to, 731
- anterior chamber, 332
- capsule, adhesions of, **511**
- carbohydrate metabolism in rat, 859
- changes in, induced by maternal hypersensitivity, **949/77**
- clouding of, after electric coagulation for retinal detachment, 360
- epithelium, influence low atmospheric pressure on, 754
- exfoliation, Busacca deposits and, 558
- fibers, resorption, in secondary cataract, **1306**
- fluorescent substance in, 1330
- front surface of, changes during growth, 187
- fructose formation in, 712
- immune electrophoresis of, 347
- intraocular: See Intraocular lens
- metabolism of, oxygen and, 561
- mucopolysaccharides in, 562

# LENS (continued)

- phosphate metabolism of, 561
- proteases of, **1004/132**
- proteins, electrophoretic study of, **305**
- incorporation labeled amino acids into, 1012/140
- study of, 729
- ribonucleic acid of, influence age and cataract formation on, **993/121**
- suspensory ligaments of, 1327
- Lenses, ophthalmic, radiographic characteristics of, **1268**
- Leopold, Irving H., M.D., **876/4**
- biography of, **878/6**
- publications of, **879/7**
- Leprosy, vasculitis retinae in, **831**
- Leukemia, orbit deposits in, 211
- pus cells in, 864
- LIGHT:** action on adaptation, 1333
- adaptation to, mechanism of, 712
- coagulation: See Photocoagulation
- energy, loss in retina and choroid, 345
- pupillary reflex to, influence retinal adaptation on, **644**
- sense, Comberg's method to examine, 735
- stimulation, occipital lobe response after, 208
- latent period in, 346
- transmission, of corneal epithelium, 192
- Limbus, pigmented papilloma of, **154**
- Lions Club, research funds available, 530
- Lipids, of cornea, 729
- Lipoma, of conjunctiva, 210
- Lupus erythematosus, fundus changes in, 867
- Lymphangiectasis, hemorrhagic of conjunctiva, 554
- Lymphangiomas, of ocular adnexa, **481**
- Lymphomatosis, avian, uveitis and, **424**
- Lymphosarcoma, epibulbar, 567
- of choroid, **1294**

# M

- Macroglobulinemia, 360, 867
- ERG in, 866
- MACULA:** degeneration, before angioid streaks, **704**
- disciform, 859
- familial, 564
- heparin in senile, **57**
- senile, 358
- heparin in, **57**
- treatment of, 362
- diseases of, 1351
- edema, recurrent with Meniere's syndrome, 1350
- false, problem of, 735
- hole of, retinal detachment and, 359
- human, 736
- physiology of, 190
- Macular and extramacular serous chorioretinopathy,** 231
- Marchesani syndrome, 202
- Marfan's syndrome, gonioscopy of chamber angle in, 562
- Marcus Gunn syndrome, 1358
- Marshall Bennett Islands, eye diseases in, **1229**
- Medicine, and the law, **339**
- Megalocornea, 556, 1345
- Melanoblastoma, electron microscopic study of, 210
- of choroid, 1346
- Melanine, formation of, 1331
- Melanoma, echogram in, **1203**
- intraocular malignant in hamster, **977/105**
- of choroid, 1363
- mast cells in, 354
- retinal involvement in, **517**
- skin, choroid as site of first manifestation, **1296**
- radiotherapy in, 1359
- tissue cultures in, 210
- Melanosis, congenital of sclera, 1363
- Memphis Eye, Ear, Nose and Throat Society, 1314
- Meniere's syndrome, recurrent macular edema and, 1350
- Meningioma, mistaken diagnosis in, 15
- Meningitis, eye signs in, 363
- tuberculous, 211
- Meningocele, of optic disc, 363
- Menstruation, vicarious in eye, 1362
- Mesencephalon, in pigmentary retinal degeneration, 859
- METABOLISM:** carbohydrate, in rat lens, 859
- diseases of, in children, 536

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

# METABOLISM (continued)

- of lens, oxygen and, 561
- of optic nerve, 732
- of retina, effect stress on, 1352
- phosphate, of lens, 561
- reduced, in uveitis, 557
- Methoxsalen, photosensitization eye with, 189
- Microphthalmos, 1364
- Migraine, ophthalmoplegic, 1363
- Miosis, congenital, 868
  - influence on absorption red blood cells, 709
- Miotic, in simple glaucoma, 751
  - in strabismus, 1343
  - present status of, 1249
  - to control glaucoma, 781
  - Tosmilen, a new, 558
- Missiles, small high-speed, eye protection against, 80
- Mizuo's phenomenon, in Oguchi's disease, 243
- Moebius syndrome, 863
  - electromyography in, 1356
- Molluscum contagiosum, 569
- Mongolism, congenital cataract and, 753
- Mongoloids, iris in, 854
- Morgagni syndrome, 1354
- Morquio-Ullrich disease, 570
- Movements, extraocular, in hydraencephaly, 267
- Mucopolysaccharides, fate of, in healing of corneal grafts, 1281
  - in lens, 562
- Mucormycosis, acute, 1328
  - of orbit, 864
- Mullen, Carroll R., 722
- MUSCLES: actions of, graphic scheme for, 352
  - denervation of, in pernicious anemia, 1343
  - double folding of, 554
  - electromyography of: See Electromyography
  - extraocular, action potentials in, 548
  - co-operation of, 469
  - influence on position of eye, 1358
  - nerves of, 187
    - spiral endings in, 186
  - grafting, in sixth nerve paralysis, 850
  - imbalance, binocular, 553
  - inferior oblique, pseudoparesis of, 850
  - operations, chymotrypsin in, 103
  - paralysis of, cerebral aneurysm and, 716
  - electro-oculogram in, 352
  - relaxants for, 739
  - surgery of, complications of, 351
  - intramuscular chymotrypsin in, 106
  - temporal, transplantation of after exenteration, 208
  - in orbit repair, 217
  - thermodynamics of intraocular and extraocular, 1141/269
  - transplantation, after severance medial rectus, 351
  - vertical, surgery of, 333
- Myasthenia gravis, anticholinesterases in, 709
- Mycobacterial injections, uveitis and, 557
- Mydriasis, influence on absorption red blood cells, 709
- Mydriatic-Roche, 733
- MYOPIA, high, lens extraction in, 1333
  - ocular hypertension and, 749
  - neosynephrine to treat, 192
  - predilection for right eye, 1333
  - transient, after Diamox, 1333
  - during Hydrodiuril therapy, 1329
  - with catarrhal fever, 191
- Myositis, of orbit, 864
- Myxedema, in enophthalmos, 570

## N

- Nailbed, blood vessels of, in diabetes, 1362
- National Council to Combat Blindness, research funds available, 531
- National Foundation, research funds available, 531
- National Research Council, research funds available, 531
- National Science Foundation, research funds available, 531
- National Society for the Prevention of Blindness, research funds available, 531
- National Vitamin Foundation, research funds available, 531
- Neck, dissection, pseudotumor cerebri syndrome after, 605
- Negroes, glaucoma in, 356

- Neosynephrine, in myopia, 132
  - influence on tonography, 781
- Nephritis, retinal blood vessels in, 729
- Nephrosis, retinal blood vessels in, 729
- Neptazane, effect on ocular tension, 200
- Nerves, sixth, muscle graft in paralysis of, 850
  - palsy, due to Furlatadone, 1332
- Neurilemmoma, of orbit, 522
- Neurofibromatosis, palpebral and orbital signs of, 566
  - surgery in, 1355
- Neuro-ophthalmology, a review, 364
- Neuro-panuveitis, 199
- Nevus, divided of eyelids, 1358
- New England Ophthalmological Society, 333, 536, 713, 1316
- New York Society for Clinical Ophthalmology, 161, 539, 716
- Newborn, cytology conjunctival fluid in, 555
  - ERG to diagnosis blindness in, 348
- News Items, 213, 366, 572, 755, 869, 1366
- Nitrogen mustard to treat tuberculous uveitis, 199
- Nortestosterone, in diabetic retinopathy, 1352
- Novocaine, effect on glaucoma, 1348
- Nutrition Foundation, research funds available, 531
- Nystagmometer, to determine visual acuity, 1333
- Nystagmus, development and treatment, 167
  - electrographic evaluation of, 352
  - optokinetic, 176
    - rapid phase of, 565
  - surgery for, 538
  - voluntary, 739
- Nystatin, in fungus infections, 551

## O

### Obituaries:

- Mullen, Carroll R., 722
- Veasey, Clarence Archibald, Jr., 543
- Ocular adnexa, lymphangiomas of, 481
- Ocular distensibility, temperature and, 160, 1024/152
- Ocular hypertension, high myopia and, 749
- Ocular rigidity, coefficient of, 752
  - effect bulbar compression on, 550
  - effect ocular tension on, 550
  - in children, 752
  - intraocular blood volume and, 202
  - ocular tension and, 354
- OCULAR TENSION: diencephalic stimulation and, 855
  - diurnal variation in, 752
  - effect anthranilic acid on, 558
  - effect Neptazane on, 200
  - effect on rigidity coefficient, 550
  - effect Rindex on, 752
  - electric resistance of corneal epithelium and, 751
  - reading of, comparison Schiötz and applanation tonometers, 855
  - regulation of, central, 751
  - scleral rigidity and, 354
  - water provocative test and, 601
- Office of Education, research funds available, 533
- Office of Vocational Rehabilitation, research funds available, 533
- Oguchi's disease, fundus in, 243
- Ointments, hydrocortisone, 349
- tetracycline, 552
- Operations, mobile table for, 1338
  - Smith, in cataract extraction, 26
  - trabeculectomy, in glaucoma, 623
- Ophthalmia, sympathetic: See Sympathetic ophthalmia
- Ophthalmic dynamics, in carotid-cavernous fistula, 867
- Ophthalmic history, books that made, 571
- Ophthalmic hospitals, St. John in Jerusalem, 540
- Ophthalmic meetings, Wilmer, 843
- Ophthalmic research, 159, 328, 709
  - biostatistical methods in, 1365
  - eyes of cats in, 1327
  - funds available for, 528
- Ophthalmic societies, Asia-Pacific Academy, 178
  - Japanese, Congress of, 180
- Ophthalmodynamometer, new electronic, 194
- Ophthalmological Foundation, research funds available, 533

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Ophthalmologist, in Brazil, 571  
 preventive medicine and, 1338  
 rehabilitation and, 1338  
 Ophthalmology, geographic, **1229**  
 optometry and, **718**  
 Philippine, history of, **93**  
 Ophthalmoplegia, ataxia and areflexia, **701**  
 bilateral nuclear, cerebellar symptoms in, **152**  
 diabetic, pupil in, 364  
 external, retinitis pigmentosa and, 351  
 extrinsic nuclear, 742  
 internal, in ocular varicella, **1307**  
 migraine, 1363  
 Ophthalmoscopy, findings in arteriosclerosis, 1337  
 indirect, adaptation of slitlamp to, **837**  
 Optic canal, decompression of by transtethmoidal route, **659**  
 Optic disc, choked, retinal blood pressure in, 207  
 holes in, in central serous retinopathy, 564  
 meningocele of, 363  
 OPTIC NERVE: anomalies of, 362  
 atrophy, Charcot-Marie-Tooth disease and, 564  
 family with, 1354  
 in Morgagni syndrome, 1354  
 nasal field defects and, 863  
 effect noxious agents on action potential of, 730  
 glioma of, 363, 863  
 injuries to, decompression optic canal in, **659**  
 metabolism of, 732  
 neurosurgical indications in lesions of, 362  
 regeneration potentialities of, 564  
 sheath, hemorrhage of, 862  
 strangulation of, eye findings in, **1308**  
 Optic neuritis, in children, 363  
 retrobulbar: See Retrobulbar neuritis  
 treatment of, 862  
 Optometry, ophthalmology and, **718**  
 ORBIT: a review, 209  
 angioma of, phlebography to diagnose, 365  
 aspergillosis of, **670**  
 deposits in, in leukemia, 211  
 exenteration and repair of, **217**  
 temporal muscle transplantation for, 208  
 fracture of, blowout, 364  
 granuloma of, 1357  
 lymphangiomas of, **481**  
 mucormycosis of, 864  
 myositis of, 864  
 neurilemmoma of, **522**  
 periostitis of, 864  
 Orbitotomy, 1342  
 Orinda vision study, **339**  
 Orthoptics, indications for, 850  
 results of, 851  
 Otrivon, **824**  
 Otrivin, **824**  
 Oxygen, effect of, in glaucoma, 1348  
 in retrolental fibroplasia, 203  
 insufflation, in vitreous hemorrhage, 1360  
 metabolism of lens and, 561
- P**
- Pacific, glaucoma in Central and South, **253**  
 Pancreas, cystic fibrosis of, eye findings in, 1361  
 Pain, facial, 349  
 Panophthalmitis, endogenous proteus, 569  
 Pantothenic acid, deficiency of, eye signs in, 734  
 Panthenol, effect on corneal necrosis, 555  
 Papilledema, enlarged blindspot without, 863  
 in hamartoma of hypothalamus, 865  
 in inflammations, 1354  
 Papilloma, of lacrimal sac, **1303**  
 pigmented of limbus, **154**  
 Parotid duct transplantation, in xerophthalmia, 197, 365, 1358  
 Pars plana cysts, in autopsy eyes, **1221**  
 Perception time, in normal and amblyopic eyes, 551  
 Perimetry, clinics in, No. 5, **15**, No. 4, **509**  
 qualitative, 1338  
 quantitative, 193  
 Periostitis, of orbit, 864  
 Periphlebitis, of retina, 861  
 semiology of, 860  
 weather and hemorrhage of, 859  
 Peritoneum graft, in retracted conjunctival sac, 364  
 Phakomatoses, eye and brain in, 564  
 Pharmaceutical manufacturers, research funds available, 533  
 Pharyngoconjunctival fever, study of, 744  
 Phenomenon, jack-in-the-box, in aphakia, **1277**  
 Mizuo's in Oguchi's disease, **243**  
 Schwartzman, 1330  
 Philippines, history ophthalmology in, **93**  
 Phlebography, to diagnose orbital angioma, 365  
 Phosphate metabolism, of lens, 561  
 Phospholine iodide, in glaucoma, 200  
 See also Echthiophate  
 Phosphorus, acid-soluble, in corneal epithelium, 1329  
 radioactive ( $P^{32}$ ): See Radioactive phosphorus  
 Phosphorylase, in ocular tissues, 732  
 Photoc driving, in amblyopia ex anopsia, **463**  
 PHOTOCOAGULATION: clinical results with, **1340**  
 effect on choroid, 1341  
 effect on retina, 1341  
 effect on sclera, 1341  
 evaluation of, 714  
 in cataract, 357  
 of anterior chamber angle, 1340  
 of filtration angle, 329  
 of retina, indications for, 361  
 retinal readaptation after, 204  
 Photography, slitlamp, 350  
 to record deviations in strabismus, 739  
 Photomicrometry of fundus, to study retinal veins, 860  
 Physiologic chemistry, a review, 549  
 Pierre-Robin syndrome, 713  
 Pigment, cells of retina and uvea, 198  
 epithelium, electron microscopy of, 735  
 Pilocarpine, in aqueous, 347  
 Pituitary, adenoma of, 565  
 tumors of, prognosis surgery in, 1355  
 strangulation optic nerve in, **1308**  
 Placenta, implanted into anterior chamber, 193  
 Plastic lenses: See Spectacles  
 Plastic surgery, after exenteration of orbit, **217**  
 of eyelid, construction fold of upper, **612**  
 margin, **835**  
 PLEOPTICS: **654**  
 after-images in, 192  
 electronic flash changes in, 1336  
 Haidinger's brushes in, 168  
 indications for, 850  
 results of, 851  
 Poland, trachoma in, 552  
 Polarography, to determine pilocarpine in aqueous, 347  
 Polyvinyl implants, tissue response to, **1200**  
 Prednisolone, keratitis after, 197  
 Prednisone, butazolidin and, 730  
 Presbyopia, premature, as preglaucoma sign, 751  
 Proteases, of bovine lens, **1004/132**  
 PROTEINS: c-reactive, in inflammations, 346  
 electrophoresis to study corneal, **314**, 730  
 to study lens, **305**, 729  
 of tears, 330  
 Pseudoglaucoma, 1364  
 Pseudohypoparathyroidism, 858  
 Pseudomonas, infections of cornea, colistin in, **391**  
 pyocyanus, corneal ulcer due to, 743  
 Pseudotumor cerebri, after neck dissection, **605**  
 Pterygium, beta radiation in, **441**  
 surgery of, 195, **441**  
 effect on corneal curvature, 352  
 effect on refraction, 352  
 Ptosis, 173  
 congenital, 207  
 divergent strabismus and, 868  
 Public Health Service, research funds available, 533  
 Pulseless disease, 866  
 PUPIL: Argyll Robertson, in cerebral tumors, 1356  
 block, in aphakia, 1316  
 corectopia, 354

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

**PUPIL (continued)**

- in Adie's syndrome, 1355
- in diabetic ophthalmoplegia, 364
- reaction to light, in hydraencephaly, **267**
- reflex to light, **644**
- size, accommodation and, 712
- Pupillography, in hemianopia, 206
- Pupillometry, micrometric linear, in fitting contact lenses, **1273**
- Pupillotomy, sensory constriction reflex and, 1355
- Pyrogen, influence on healing corneal ulcers, 710

**R**

- Radiation, beta, action on absorption  $P^{22}$ , 548
  - in filamentary keratitis, **1292**
  - in pterygium, **441**
- TEM and, in retinoblastoma, 160
- therapy, in retinal cancer, 865
  - in retinoblastoma, 1358
- Radioactive, Diamox- $S^{35}$ , localization in eye, **87**
- isotopes, strontium-90, 350
- phosphorus, action beta radiation on, 548
  - to diagnose ocular tumors, 865
- sulfate, to study healing corneal grafts, **1281**
- Radiography, cerebral, in arteriosclerosis, 1337
  - to study ophthalmic lenses, **1268**
- Radiotherapy, in malignant melanoma, 1359
- Radiothyroxine, ocular uptake of, **1018/146**
- Radioti-iodothyronine, ocular uptake of, **1018/146**
- Rauwolfia, retinal hemorrhage and, 1330
- Reading, reverse, 710
- Recklinghausen disease, surgery in, 1355
- Refraction, effect pterygium surgery on, 352
- Rehabilitation, ophthalmologist and, 1338
- Relaxants, guaiacol-glycerin-ether, as muscle, 739
- Research to Prevent Blindness, funds available, 535
- Research, in ophthalmology and blindness, funds for, 528
- Reticulohistiocytosis, corneal opacities in, 853
- RETINA: after Ditzione, 190
  - arteriosclerosis, uveitis and, **797**
  - artery, occlusion, glaucoma after, 1348
    - heparin in, 563
    - secondary glaucoma after, prognosis of, **793**
    - segmental lesions of, 358
  - blood pressure in, 729
    - cold pressor test and, 1361
    - in choked disc, 207
  - blood vessels of, in nephrosis and nephritis, 729
    - lesions of, in hypertension, 1353
  - breaks, without detachment, **369**
  - cancer of, radiation in, 865
  - changes in, in alloxan diabetes, 563
  - cytochrome-C in, 189
  - cytochromoxydase activity in, 189
  - degeneration, mesencephalon in pigmentary, 859
- DETACHMENT: auricular cartilage implant in, 1351
  - coloboma of choroid and, 860
  - cutaneous implants in, 1350
  - diathermy in, 1352
    - electrode for, 861
    - due to cysticercus, 361
    - due to nontraumatic dialysis, 359
  - familial, **33**
  - hyaluronic acid as vitreous implant in, 564
  - in aphakia, 205
  - in superior half, 358
  - lens clouding after electrocoagulation for, 360
  - macular hole and, 359
  - retinal breaks without, **369**
  - scleral buckling in, 860
    - procedure for, 556
  - scleral resection for, **1211**
  - shortening eyeball for, **1211**
  - subretinal fluid in, electrophoretic study of, 205
  - surgery of, 860
    - expulsive hemorrhage during, **264**
    - vitreous detachment in, 1353
  - diseases of, color mechanism in, 712
  - edema, during Hydrolyril therapy, 1329
  - effect diathermy on, 1341

**RETINA (continued)**

- effect photocoagulation on, 1341
- ERG and: See Electroretinography
- epithelium of, electron microscopy of pigment granules of, 728
- function of, effect hallucinogenic agents on, 548
- hemorrhage of, **721**
  - Butazoladin in, 1332
  - Rauwolfia in, 1330
- hexokinase in, 1330
  - activity of, 547
  - in hyperlipemia, 358
- involvement, in melanoma of choroid, **517**
- lesions of, changes in, prognosis and, 1351
- light energy loss in, 345
- metabolism of, effect stress on, 1352
- occlusion, blood pressure in, 204
- pigment of, chromatophotropic hormone in, 1354
- periphery of, diagnostic contact lens for, **413**
- periphrisis of, 861
  - semiology of, 860
  - weather and hemorrhage of, 859
- photic stimulation of, response iris to, 711
- photocoagulation of, indications for, 361
  - readaptation after, 204
- pigment cells of, 198
- pigment changes of, 174
- readaptation of, after photocoagulation, 204
- receptors of, wave-guide modes in, **1107/235**
- representation of, in lateral geniculate body, 206
- rods of, electron microscopy of, 563
- silver impregnation of whole, 361
- surgery of, ERG in, 360
- vascular patterns of, 563
- vasculitis of, in leprosy, **831**
- vein, fundus photomicrometry to study, 860
  - occlusion, 859
    - glaucoma and, 361
    - therapy of, **456**
  - thrombosis of, anticoagulants in, 1353
- Retinal adaptation, influence of, on pupil reflex to light, **644**
- Retinal adaptometry, 737
- Retinal correspondence, after intervention for heterophoria, 740
  - in strabismus, 849
- Retinitis, due to Toxoplasma, 204
- exudative, echogram in, 205
  - external, 360, 361
- pigmentosa, ERG in, 563
- experimental study of, 562
  - genetic study of, 204
- proliferans, 862
  - preretinal loops of retinal vein in, 1349
- Retinoblastoma, echogram in, **1203**
  - heredity in, 1352
  - radiation therapy in, 1353
  - TEM and radiation in, 160
- RETINOPATHY: central serous, holes in optic disc and, 564
  - in twins, 1350
  - diabetic: See Diabetic retinopathy
  - in sickle-cell disease, 861
- Retinopathy, phenomenon of, **113**
- Retinoschisis, hereditary, pedigree of family with, **1193**
- Retrobulbar neuritis, 207
  - treatment of acute, 206
- Retrorenal fibroplasia, oxygen in, 203
- Rheology, of human sclera, 328
- Ribonucleic acid, of lens, influence age and cataract formation on, **993/121**
- Rigidity of eye: See Ocular rigidity
- Rindex (hormone complex), effect on ocular tension, 752
- Rockefeller Foundation, research funds available, 535

**S**

- Sarcoid, Boeck's, 1336
- Sarcoidosis, ocular 569
  - of fundus, 713

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Schlemm's canal, drainage channels in, 344  
 Schools, visual testing in, 571  
 SCLERA: a review, 854  
   blood vessels of, 727  
   cyst of, traumatic, 743  
   effect diathermy on, 1341  
   effect photocoagulation on, 1341  
   electrophoresis of, 734  
   granuloma of, in rheumatic arthritis, 71  
   in nonpenetrating electrocoagulation, 1340  
   melanosis of, 1363  
   rheology of human, 328  
   surgery of, collagenous sutures in, 1339  
 Scleral buckling, polyvinyl implant for, 1200  
   procedures for, 556  
   See also under Retina, detachment  
 Scleral resection, before lens extraction in high myopia, 1333  
   See also under Retina, detachment  
 Scleral rigidity, coefficient of, effect intraocular volume on, 159  
   determination of, before and after tonography, 150  
   effect surface diathermy on, 554  
   See also Ocular rigidity  
 Scleroderma, neurotrophic changes in linear, 1346  
   ocular changes in linear, 807  
 Scleromalacia perforans, 853  
   granuloma sclera and, in rheumatoid arthritis, 71  
 Sclerosis, multiple, clinical features of, 867  
 Sclerotomy, Verhoeff, in expulsive hemorrhage, 264  
 Scotoma roving ring with aphakic spectacles, 1277  
 Screening, for glaucoma, 248  
 Scurvy, ascorbic acid concentration and, 1332  
 Sedative, chloral hydrate as pediatric, 834  
 Sickle-cell disease, retinopathy in, 861  
 Siderosis, ERG in experimental, 733  
   experimental, 735  
   intraocular, 1328  
 Silver nitrate, to treat herpetic keratitis, 182  
 Sinusitis, influence on glaucoma, 749  
 Slitlamp, adaptation of to indirect ophthalmology, 837  
   photography, 350  
 SNH, in experimental tuberculosis, 1337  
 Society Proceedings, 161, 332, 536, 713, 1314  
 Sodium, effect hypothermia on turnover of, 1032/160  
 Solutions, saline vs. balanced salt in eye surgery, 159  
 SPECTACLES: aphakic, roving ring scotoma with, 1277  
   conoid cataract lenses to correct aphakia, 615  
   contact lenses: See Contact lenses  
   for partially sighted, 1337  
   Lindner stenopeic, 194  
   magnifiers, patients using, 348  
   new glass for, 737  
   plastic lens, as protection against small high-speed missiles, 80  
   radiographic characteristics of lenses of, 1268  
   telescopic, evaluation of, 433  
 Speculum, for aspiration, 552  
 Stains, silver, to study corneal morphology, 1051/179  
   toluidine blue, as test in viral disease, 853  
 Staphylococcus, bacteriophage typing of ocular strains, 710  
   conjunctivitis due to, 819  
 Status dysraphicus, dyscephaly symptoms in, 1355  
 Stereoscopic luster, 1334  
 Steroids, and antibiotics in uveitis, 199  
   in Coats' disease, 1351  
   in rheumatoid arthritis, cataract and, 710  
   in retinal vein occlusion, 456  
 Stilling-Türk-Duane syndrome, 1363  
 STRABISMUS: acute, due to occlusion, 195  
   amblyopia with, 195, 351  
   localization in, 851  
   angle of, 352  
   amount of surgery and, 553  
   equalizing, 709  
   anomalous retinal correspondence and, 849  
   anomalous sensory relationship in, 194  
   binocular muscle imbalance and, 553  
   binocular vision in, 849  
   concomitant, agnosis in, 849  
 STRABISMUS (*continued*)  
   convergent, results operation in, 553  
   surgery in, 849  
   deviations in, photography to record, 739  
   divergent, abducens paralysis and, 1315  
   ptosis and, 868  
   Duane's retraction syndrome, 1257  
   eccentric fixation in, 192  
   eserine to diagnose and treat, 740  
   fixation in, 351  
   eccentric, 192  
   in Siamese cats, 330  
   incidence of, in Denmark, 740  
   miotics in, 1343  
   nonparalytic convergent, 1249  
   surgery, intramuscular chymotrypsin in, 106  
   millimetric evaluation of, 741  
   of vertical, 742  
   treatment of, 741  
   vertical, surgery of, 742  
 Streptomycin, in experimental tuberculosis, 1337  
 Stress, effect on retinal metabolism, 1352  
   uveitis and, 855  
 Sturge-Weber syndrome, 1356  
   symptoms in, 1362  
 Subtilin, electrophoretic characteristics of, 330  
 Sulfhydryls, cataract development and, 754  
 Sulfonamides, in senile cataract, 203  
   in trachoma, 551  
 SURGERY: absorbable sutures in corneal, 118  
   chymotrypsin in, 103  
   glyceric ether in, 1340  
   in vernal catarrh, 1344  
   infections in, 1336  
   prophylaxis of, 1342  
   saline vs. balanced salt solutions in, 159  
   use of tranquilizers in, 350  
 SUTURES: absorbable, in corneal surgery, 118  
   collagenous, 1339  
   double traction, 1304  
   for cataract surgery, 1243  
   Pavia Gonçalves Filho, in entropion lower lid, 1312  
   retractor for loops of, 520  
 Sympathetic ophthalmia, after iridencleisis, 829  
   electron microscopic study of, 198  
   frequency of, 156  
   therapy of, 556  
 SYNDROME: Cogan's 353  
   Duane's retraction, 1257  
   Fisher's 701  
   Foster-Kennedy, in tuberculous meningitis, 867  
   Groenblad-Strandberg, 704  
   Klippel-Trenaunay, 1362  
   Marchesani, 202  
   Marcus Gunn, 1358  
   Marfan's, 562  
   Meniere, with recurrent macular edema, 1350  
   Moebius, 863, 1356  
   Morgagni, 1354  
   Pierre-Robin, 713  
   pseudotumor cerebri, after neck dissection, 605  
   Stilling-Türk-Duane, 1363  
   Sturge-Weber, 1356, 1362  
   Waardenburg's 1363  
 Synechias, air injection to prevent in keratoplasty, 320

## T

- Takayasu's disease, 866  
 Tanderil, in eye diseases, 1343  
 Tarsorrhaphy, 1358  
 Tarsotomy, to correct entropion, 209  
 Tarsus, extirpation of, after enucleation, 227  
 Tears, gamma zone changes in, 328  
   in leukemia, 864  
   kit for testing, 840  
   proteins of, 330  
   Schirmer test for, 209  
 Television, to treat diplopia, 851  
 TEM, radiation and, in retinoblastoma, 160  
 Temperature, ocular distensibility and, 1024/152

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Terramycin ointment, 552
- TESTS: adaptometric, monocular, 1339  
cold pressor, retinal blood pressure and, 1361  
ERG double-flash, 1342  
George Young in glaucoma, 1348  
Middlebrook-Dubos, in iridocyclitis, **627**  
Schirmer, usefulness of, 209  
Toxoplasma hemagglutination, 1341  
water provocative, mechanism of, **601**  
value of, **451**
- Therapy, chemo-, in ocular tumors, **785**  
of retinal vein occlusion, **456**  
placenta, 193  
urea, in glaucoma, 355
- Thermodynamics, of intraocular and extraocular muscles, **1141/269**
- Thyroid disease, eye signs of, 211  
Thyroxine utilization in uveitis, 557
- TISSUES: connective, disorders of, 556  
culture, growth Toxoplasma strains in, **920/48**  
in melanoma, 210  
iodine migration into, 729  
phosphorylase in, 732  
response of, to polyvinyl implants, **1200**  
retrobulbar, effect cortisone on, 734  
transaminase in, 732
- Tobacco amblyopia, **509**
- Toluidine blue test, in viral disease, 853
- TONOGRAPHY: 749  
effect blood pressure on, 751  
influence Cyclogyl and Neosynephrine on, **781**  
modification of, 201  
scleral rigidity determinations before and after, **150**  
to determine aqueous production in uveitis, 1343  
to measure aqueous flow, 549
- Tonometers, comparison Schiøtz and applanation, 855  
convex plunger for, 738  
Schiøtz, calibration of, 199  
new and used, 749  
with convex plunger, 857
- TONOMETRY: applanation, 199, 559, 750  
accommodation and, 330  
aqueous outflow studied by, 856  
corneal bending and buckling in, 856  
indentation and applanation, 165  
oil-can effect in, 328
- Tosmilen, a new miotic, 558  
eyedrops, 738
- TOXOPLASMA: culture of, 547  
growth strains in tissue culture, **920/48**  
hemagglutination test, 1341  
in aqueous, in acquired toxoplasmosis, 1327  
morphology of, 547
- TOXOPLASMOSIS: 344  
experimental 1329  
retinitis due to, 204  
Toxoplasma in aqueous, in acquired, 1327
- Trabecula, biochemical and biophysical behavior of, 347  
drainage channels in, 344
- Trabecular meshwork, nodular dystrophy of, 711
- Trabeculectomy, in glaucoma, **623**
- TRACHOMA: achromycin in, 553  
cyst of Krause's gland in, 556  
cytologic study in, 555  
epidemiology of, 868  
experimental, 1328  
histopathology of, 353  
in Poland, 552  
inclusion-producing agent of, 547  
initial symptoms of, 743  
mass campaign against, 571  
pannus, corneal thickening due to, 556  
sulfonamides in, 551  
therapy of, 353  
virus, isolation of, 547  
in case of, 188  
in United States, 187
- Traffic, aphakic correction in, 1365  
color perception in, 1333  
speed limit in, speedometer reading and, 1364  
visual fields in, 1364
- Tranquilizers, use in surgery, 350
- Transaminase, in ocular tissues, 732
- Trephine, bone, for dacryocystorhinostomy, 1359
- Trichiasis, entropion with, 209
- Tritium-labeled thymidine, in corneal endothelium, 197
- Tuberculo, of bulbar conjunctiva, 748
- TUBERCULOSIS: blood transfusion in, 1337  
experimental, ACTH, streptomycin and SNH in, 1337  
Cycloserine in, 190  
Pyrazinamide in, 190  
Viomycin in, 190  
meningitis of, 211  
Foster-Kennedy syndrome in, 867  
Middlebrook-Dubos test in, **627**  
uveitis of, nitrogen mustard to treat, 199
- TUMORS: cerebral, Argyll Robertson pupil in, 1356  
chemotherapy and marrow transplantation in, **785**  
experimental, 709  
intraocular, acoustic biomicroscopy of, **1203**  
diathermy in, 536  
malignant melanoma, radiotherapy in, 1359  
melanoblastoma, 210  
of choroid, 353, 354, **517, 1294, 1296, 1346, 1363**  
of conjunctiva, 210, 567  
of eyelids, 209, 352, 567  
of hypothalamus, 863  
of lacrimal sac, **1303**  
of limbus, **154**  
of ocular adnexa, **481**  
of optic disc, 363  
of optic nerve, 363, 863  
of orbit, 365, **522**  
of pituitary, 565  
prognosis surgery in, 1355  
of retina, radiation in, 865  
of uvea, 210  
**P<sub>22</sub>** to diagnose ocular, 865  
treatment of intraocular, 567
- Twins, retinopathy in, 1350
- U**
- Ulcers: See under names of various organs, etc.
- Ultrasound, biomicroscopy, 552, **1203**  
echoes, measuring distance between, 1331  
echogram of: See Echogram  
to diagnosis intraocular tumors, **1203**
- United Cerebral Palsy Foundation, research funds available, 535
- Urea, in glaucoma therapy, 355
- UVEA: blood vessels of, 727  
melanoma of, 210  
neutrophic changes in, in scleroderma, 1346  
pigment cells of, 198
- UVEITIS: ancillary consultations in diagnosis of, **761**  
antibiotics and steroids in, 199  
aqueous production in, 1343  
aqueous proteins in, 1331  
avian lymphomatosis and, **424**  
experimental, 748  
fluorometry and, 354  
hypometabolism in, 557  
immunologic reactions in granulomatous, **761**  
immunologic testing in, 329  
mycobacterial injections and, 557  
neurologic symptoms in, 1346  
peripheral, pathogenesis, etiology and treatment, **19**  
retinal arteriosclerosis and, **797**  
sensitivity studies in nongranulomatous, **761**  
serologic reactions in, **761**  
stress and, 855  
survey, sponsored by American Academy of Ophthalmology, **761**  
symposium on, 855  
thyroxine utilization in, 557  
tuberculous, nitrogen mustard to treat, 199
- V**
- Vaccinia, of eyelids, immune globulin in, 209
- Varicella, ocular, **1307**
- Vasoconstrictor, a new, **824**

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Vasodilators, in retinal vein occlusion, **456**  
 Veasey, Clarence Archibald, Jr., **543**  
 Vergence, accommodation, pupil size and, 712  
 versions and, 171  
 Verhoeff sclerotomy, in expulsive hemorrhage, **264**  
 Vernal catarrh: See Catarrh  
 Vernal conjunctivitis: See Conjunctivitis, vernal  
 Veterans Administration, research funds available, 535  
**VIRUSES:** adenovirus, histology study of, 745  
   in epidemic keratoconjunctivitis, 747  
   isolation of, 747  
     from conjunctiva, 728  
   diseases due to, of conjunctiva, 1344  
   toluidine blue test in, 853  
   herpes: See Herpes  
   isolation of, in inclusion conjunctivitis in infants, 329  
   in rare keratitis, 353  
   trachoma: See Trachoma  
**VISION:** binocular, in strabismus, 849  
   biomathematical topology and theories of, 736  
   development of, in man, 1335  
   in binocular aphakia, 1335  
   loss of, due to hemophilia, 568  
 Visual acuity, measurements by Goldmann-Günther instruments, 194  
   nystagmometer to determine, 1333  
 Visual aids, for partially sighted, 1337  
 Visual contrast, thresholds of, 190  
 Visual fields, in optic nerve atrophy, 863  
   in traffic, 1364  
   tubular, due to glaucoma, 716  
 Visual impairment, in hydraencephaly, **267**  
 Visual prognosis, in surgery pituitary tumors, 1355  
 Visual space, effect restricted on primate eye, 328  
 Visual tests, evaluation Ishihara, Farnsworth and H-R-R, **298**  
   in school children, 538, 571  
 Vitamins, A, effect on corneal necrosis, 555  
   A and B, in macular degeneration, 362  
   C, in scurvy, 1332  
   deficiency of, eye and, 212  
   E, in diabetes, 1342  
**VITREOUS:** antibacterial activity of, 206, **326**, 862  
   cerebrospinal fluids into, in hemophthalmos, 1338  
   cysticercus of, 1350  
   detachment, retinal detachment and, 1353  
   diffusion studies with ox, **814**  
   electron microscopy of, 204  
**VITREOUS (continued)**  
   hemorrhage, 335  
     oxygen insufflation in, 1360  
   implants, hyaluronic acid as, in retinal detachment, 564  
   limiting membrane of, 860  
   loss, in surgery senile cataract, 753  
   opacities, in inflammations, 362  
     role lyophilized vitreous in, 361  
   stability of, 188  
   structure of, 1327  
   transscleral division mid-membrane of, 350  
 Von Hippel-Lindau disease, **141**
- W**
- Waardenburg syndrome, 1363  
 Water, content of blood, ocular tension variations and, 752  
   drinking test, evaluation of, **451**  
   mechanism of, **601**  
 Weather, influence on periphlebitis of retina, 859  
 Wilzbach technique, in preparing tritiated acetazolamide, **323**  
 Wounds, closing of, U-sutures in, 568  
   management disruption of, 568  
   See also under names of various organs, etc.
- X-Z**
- Xeroderma pigmentosum, eye changes in, 353  
 Xerophthalmia, parotid duct transplantation in, 197, 365, 1358  
**X-RAYS:** cataract due to, 858  
   characteristics of ophthalmic lenses, **1268**  
   congenital anomalies in mice due to, 1328  
   in early glaucoma, 1347  
   reference contact lens for, **417**  
   therapy, in eyelid cancer, 365  
 Zinn, zonule of, effect alpha chymotrypsin on, 717  
 Zonule, electron microscopy of, 190  
**ZONULOLYSIS:** 1349  
   experience with, 560  
   ferments of, 346  
   follow-up examinations after, 753  
   histology after, 1349  
   in cataract surgery, **26**, **103**, 203, 357, 537  
   inhibition of, 346  
   procedure and complications, 1349

## COLOR ILLUSTRATIONS

### VOLUME 51

### JANUARY-JUNE, 1961

|                                                                                                                                                                                            |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| USE OF INTRAMUSCULAR CHYMOTRYPSIN IN CONTROLLING TISSUE REACTION FOLLOWING STRABISMUS SURGERY: A PRELIMINARY STUDY. Edward G. Fortier .....                                                | facing pages 108-111 |
| VON HIPPEL-LINDAU DISEASE. Maxwell Thomas and Ronald M. Burnside .....                                                                                                                     | facing page 142      |
| APPEARANCE AND DISAPPEARANCE OF THE FUNDUS DISTURBANCE IN OGUCHI'S DISEASE. Tikasi Sato and Kenichi Bala .....                                                                             | facing page 244      |
| GROSS AND MICROSCOPIC PATHOLOGY IN AUTOPEY EYES: PART III. RETINAL BREAKS WITHOUT DETACHMENT. Edward Okun .....                                                                            | facing page 369      |
| HISTOPATHOLOGIC DIFFERENTIATION OF GRANULAR, MACULAR AND LATTICE DYSTROPHIES OF THE CORNEA. Sam T. Jones and Lorenz E. Zimmerman .....                                                     | facing page 398      |
| MORPHOLOGIC AND HISTOCHEMICAL CHANGES OCCURRING IN CAT CORNEAS DURING LONG-TERM GLYCEROL FREEZING. F. W. Stocker, M. Th. Matton-Van Leuven, A. Eiring, R. Georgiade and N. Georgiade ..... | facing page 579      |

# INDEX

## Authors and Titles

### of

### Original Articles and Notes, Cases, Instruments

#### A

- ABRAHAM, Samuel V.: Present status of miotic therapy in nonparalytic convergent strabismus, **1249**  
 ABRAHAM, I. Willard: Avian lymphomatosis and uveitis, **424**. See also WOODS, Alan C.  
 AFEMAN, Charles: See BARBER, Aeleta  
 AIZAWA, Futaba: See GALIN, Miles A.  
 AMDUR, Joseph: Construction of the upper lid fold, **612**  
 See also HUGHES, Wendell L.  
 ANDERSON, D. L., and SHEA, M.: Tissue response to polyvinyl alcohol implants in rabbits, **1200**  
 APTER, Julia T.: Some membrane properties of nonpigmented ciliary epithelium of poikylotermic vertebrates, **1118/246**; Thermodynamics of the intraocular and extraocular muscles, **1141/269**  
 ARBOGAST, J. L.: See SCHLAEGEL, T. F., Jr.  
 ARRINGTON, George E., Jr.: A suture-loop retractor, **520**  
 ASBURY, Taylor: See WINTERS, David M.  
 ASCHER, Karl W.: Ophthalmologic experiences with a new vasoconstrictor and a new anti-inflammatory agent, **824**  
 ATKINSON, Walter S.: The development of ophthalmic anesthesia: The Sanford R. Gifford Lecture, **1**

#### B

- BABA, Kenichi: See SATO, Tikasi  
 BAILEY, Joseph C., and FULMER, John M.: Aspergillosis of orbit: Report of a case treated by the newer antifungal antibiotic agents, **670**  
 BARAS, Irving: See GALIN, Miles A.  
 BARBER, Aeleta N., WILLIS, James, and AFEMAN, Charles: Changes in the lens induced by maternal hypersensitivity in mice, **949/77**  
 BAYADI, George El: Adaptation of slitlamp to indirect ophthalmoscopy, **837**  
 BEASLEY, Harold: Lymphosarcoma of the choroid, **1294**  
 BECKER, Bernard: The effect of hypothermia on aqueous humor dynamics: III. Turnover of ascorbate and sodium, **1032/160**. See also FORBES, Max; POLLACK, Irvin P.  
 BELLESTRI, Joseph: See HOLLAND, Monte G.  
 BENTLEY, Maxwell D.: See WOLTER, J. Reimer  
 BERENS, Conrad: See HALBERG, G. Peter  
 BIRGE, Henry L.: Pleoptics: A survey on its origin and present European use, with comments on Bangerter vs. Cüppers and suggestions for American ophthalmologists, **654**  
 BODIAN, Martin: A new suture for cataract surgery, **1243**  
 BOEDER, Paul: The co-operation of extraocular muscles, **469**  
 BROCKHURST, R. J., SCHEPENS, C. L., and OKAMURA, I. D.: Uveitis: III. Peripheral uveitis: Pathogenesis, etiology and treatment, **19**  
 BURGESS, Lurline: See WOOD, Don C.  
 BURNS, Robert P.: Chemotherapy and autologous marrow transplantation in palliation of malignant ocular tumors, **785**  
 BURNS, Robert P., and FRAUNFELDER, Frederick T.: Experimental intraocular melanoma in the Syrian golden hamster, **977/105**  
 BURNSIDE, Ronald M.: See THOMAS, Maxwell  
 BYRON, Herve M., and WESELEY, Alan C.: Clinical investigation of corneal contact lenses, **675**

#### C

- CAMPBELL, William L.: See NEWELL, Frank W.  
 CARABELLE, R. W.: Chloral hydrate: A useful pediatric sedative, **834**

- CARAVAGGIO, Leo L.: See von SALLMANN, Ludwig  
 CHAMBERS, Robert G.: See MARR, William G.  
 CHATTERJEE, B. M.: Pigmented papilloma of the limbus: Undergoing malignant changes, **154**  
 COGAN, David G.: See HILL, Kevin  
 COHEN, Samuel W.: Choroidoscopy: A supplementary technique to ophthalmoscopy, **833**  
 COLEMAN, Stan L.: The experimental production of pine-pollen granulomas of the iris in hypersensitized guinea pigs, **941/69**  
 COLLINS, R. Douglas: Bilateral nuclear ophthalmoplegia: Report of a case with cerebellar symptomatology, **152**  
 CONSTANT, Marguerite A.: The distribution of 5,5-dimethyl-2, 4-oxazolidinedione (DMO) in ocular and cerebrospinal fluids, **967/97**  
 COVELL, Lester L., and MARKIEWITZ, Harri H.: The choroid: As site of prime manifestation of systemic involvement in skin melanoma, **1296**  
 CRAWFORD, John S.: Papilloma of the lacrimal sac, **1303**  
 CRONE, R. A.: Quantitative diagnosis of color vision: A comparative evaluation of the Ishihara test, the Farnsworth dichotomous test, and the Hardy-Rand-Rittler polychromatic plates, **298**

#### D

- DAYAL, Y.: Glaucoma with Krukenberg's spindles, **324**; External dacryocystorhinostomy: Clinical review of 56 cases, **514**  
 DEVI, Anima: The occurrence of proteases in bovine lens, **1004/132**. See also DISCHE, Zacharias; LERMAN, Sidney  
 DIAZ-BONNET, Victor: See KIMURA, Samuel J.  
 DISCHE, Zacharias, DEVI, Anima, and ZELMENIS, Gineria: Influence of age and character formation on the ribonucleic acid of the lens: I. Changes in various fractions of ribonucleic acid of rat lenses during ageing, **993/121**  
 DOCTOR, Daniel W.: Air injection to prevent synechias in keratoplasty, **320**  
 DOMEY, Richard G., and McFARLAND, Ross A.: Dark adaptation as a function of age: Individual prediction, **1262**

#### E

- EAMES, Thomas H.: Accommodation in school children: Aged five, six, seven and eight years, **1255**  
 EIRING, A.: See STOCKER, F. W.  
 ELLIS, Richard A.: Cataract extraction with the modified Smith technique, **26**  
 ENOCH, Jay M.: Visualization of wave-guide modes in retinal receptors, **1107/235**  
 EPSTEIN, E.: See FRIEDMANN, A. I.  
 ERBAKAN, Selahattin: Groenblad-Strandberg syndrome: Report of two cases in which macular degeneration occurred before angioid streaks, **704**; Plastic repair of eyelid margin, **835**  
 ERDBRINK, Wayne L.: See WUEST, Frederick C.  
 ESPIRITU, Romeo B., KARA, Gerald B., and TABOWITZ, David: Studies on the healing of corneal grafts: I. The fate of mucopolysaccharides as determined by  $S^{35}$  incorporation and autoradiography, **1281**  
 ESTELA, L. A.: See SCHLAEGEL, T. F., Jr.

#### F

- FALLS, Harold F.: See GIESER, E. Paul. See also

- GILES, Conrad L. See also STREETEN, Barbara Wiard
- FARSON, Clyde: Phlyctenular keratoconjunctivitis at Port Barrow, Alaska, 585
- FECHNER, Paul, U.: Methods for the separation of lids in cataract surgery, 35
- FEENEY, Lynette: See HOGAN, Michael J.
- FEENEY, Lynette, and HOGAN, Michael J.: Electron microscopy of the human choroid: I. Cells and supporting structures, 1057/185; Electron microscopy of the human choroid: II. The choroidal nerves, 1072/200
- FERREIRA, L. Botelho: Noncicatrical entropion of lower lid: Treated by the Paiva Gonçalves Filho suture, 1312
- FILES, Thomas Mitchell: Studies on the use of antihistamines in cataract surgery, 1240
- FLEMING, T. C., and RIDDEL, G. H.: Studies of the antigenic properties of alpha chymotrypsin, 1104/232
- FLOCKS, Milton: The nature of contrast phenomena, 1099/224
- FONDA, Gerald: Evaluation of telescopic spectacles: (Thirty-nine cases changed to simpler lenses), 433
- FORBES, Max and BECKER, Bernard: The transport of organic anions by the rabbit ciliary body: IV. Acetazolamide and rate of aqueous flow, 1047/175
- FORTIER, Edward G.: Use of intramuscular chymotrypsin in controlling tissue reaction following strabismus surgery: A preliminary report, 106
- FRAUNFELDER, Frederick T.: See BURNS, Robert P.
- FRIEDMANN, A. L., and EPSTEIN, E.: Familial retinal detachment, 33
- FUCHS, Adalbert: Frequency of sympathetic ophthalmia: In different parts of the world, 156
- FULMER, John M.: See BAILEY, Joseph C.
- FURGIUELE, Francis P.: See SERY, Theodore W.
- G**
- GALIN, Miles A., AIZAWA, Futaba, and McLEAN, John M.: Evaluation of the water provocative test, 451
- GALIN, Miles A., AIZAWA, Futaba, and BARAS, Irving: Studies on the mechanism of the water drinking test, 601
- GEORGIADIS, N.: See STOCKER, F. W.
- GEORGIADIS, R.: See STOCKER, F. W.
- GIESER, E. Paul, and FALLS, Harold F.: Hereditary retinoschisis, 1193
- GILES, Conrad L., and FALLS, Harold F.: Further evaluation of amphotericin-B therapy in presumptive histoplasmosis chorioretinitis, 588
- GOODSIDE, Victor: Developmental abnormality of posterior aspect of the cornea, 525
- GOREN, Seymour B.: See NEWELL, Frank W.
- GOREN, Seymour B., NEWELL, Frank W., and O'TOOLE, John J.: The localization of Diamox-S<sup>®</sup> in the rabbit eye, 87
- GRIMES, Patricia: See von SALLMANN, Ludwig
- GUNN, Marvin R.: See HATCH, Joseph L.
- H**
- HAAN, A. B. de: Giant cells: In resorption of lens fibers in secondary cataract, 1306
- HAGEDOORN, A., and MAAS, E. R.: Potential antibacterial properties of the human vitreous, 326
- HAGEDOORN, A., and VELZEBOER, C. M. J.: Shortening of the eyeball for retinal detachment, 1211
- HALBERG, G. Peter, and BERENS, Conrad: Standardized Schirmer tear test kit, 840
- HARRIS, Dennis: Sympathetic ophthalmia following iridectomy: Case report and incidence, 829
- HARTSTEIN, Jack: See MILLER, James E.
- HATCH, Joseph L., and GUNN, Marvin R.: Radiographic characteristics of ophthalmic lenses, 1268
- HAWES, Susan: See LERMAN, Sidney
- HILDRETH, H. Rommel: Digital ocular compression preceding cataract surgery, 1237
- HILGARTNER, Henry L., and THOMPSON, Hardy E., Jr.: Alpha chymotrypsin in intraocular foreign body extraction, 147
- HILL, Kevin, COGAN, David G., and DODGE, Philip R.: Ocular signs associated with hydraencephaly, 267
- HOGAN, Michael J.: See FEENEY, Lynette. See also KIMURA, Samuel J.
- HOGAN, Michael J., and FEENEY, Lynette: Electron microscopy of the human choroid: III. The blood vessels, 1084/212
- HOGAN, Michael J., YONEDA, Chieko, and ZWEIG-ART, Phyllis: Growth of Toxoplasma strains in tissue culture, 920/48
- HOLLAND, Monte G., MALLERICH, Dallas, TISCHLER, Bruce, and BELLESTRI, Joseph: Short-circuit current and resistance of the in vitro iris-ciliary body membrane preparation, 1027/155
- HOLLAND, Monte G., TISCHLER, Bruce, and BELLESTRI, Joseph: Ocular distensibility as a function of temperature, 1024/152
- HOLMES, William John: Glaucoma in the Central and South Pacific, 253
- HUGHES, Wendell L., LEWIS, Earl L., and AMDUR, Joseph: Chymotrypsin in various ophthalmic procedures, 103
- HYNES, Edward A.: Syndrome of Fisher: Ophthalmoplegia, ataxia and areflexia, 701
- J**
- JABLONSKA, Stefania: See SEGAL, Pawel
- JOHNSON, Laverne C.: See MILLER, James E.
- JONES, Ira S.: Lymphangiomas of the ocular adnexa: An analysis of 62 cases, 481. See also REESE, Algon B.
- JONES, Sam T., and ZIMMERMAN, Lorenz E.: Histopathologic differentiation of granular, macular and lattice dystrophies of the cornea, 394
- K**
- KANOFKY, F. J.: Simplified micrometric kerato-pupillometry: An advance in bifocal corneal lens fitting technique using newly designed reticles in the ocular of the Zeiss slitlamp, 1273
- KARA, Gerald B.: See ESPIRITU, Romeo B.
- KEARNS, Thomas P.: See RUCKER, C. Wilbur
- KEENEY, Arthur H.: Classification and surgical techniques in iridectomy, 261
- KEITH, C. G.: Duane's retraction syndrome, 1257
- KIESEL, Robert D.: Conjunctival granuloma due to an imbedded cilium, 706
- KIMURA, Samuel J., DIAZ-BONNET, Victor, OKUMOTO, Masao, and HOGAN, Michael J.: The effect of corticosteroid hormones on experimental herpes simplex keratitis, 945/73
- KLIEN, Bertha A.: Macular and extramacular serous chorioretinopathy: With remarks upon the role of an extrabulbar mechanism in its pathogenesis, 231
- KNOLL, Henry A.: An experimental investigation of the basic phenomena of retinopathy: III. Resistance and capacitive reactance of the cat's cornea, sclera, choroid and vitreous, 113
- KNOWLES, William F.: Effect of intralaminar plastic membranes on corneal physiology, 1146/274
- KULSHRESTHA, O. P.: See SHARMA, B. C.
- L**
- LANDAU, J.: Vasculitis retinae in leprosy, 831
- LEHMAN, Robert N., and McCASLIN, Murray F.: Anatomic variations of the iris: In relation to basal iridectomy in the treatment of glaucoma, 666
- LEHTINEN, Antti: See OKSALA, Arvo
- LEOPOLD, Irving H.: Comments on acceptance of the Friedenwald Award, 877/5; Ocular cholinesterase and cholinesterase inhibitors: The Friedenwald Memorial Lecture, 885/13. See also WEISS, Daniel I.
- LERMAN, Sidney, DEVI, Anima, and HAWES, Susan: The incorporation of labelled amino acids into lens protein of normal, galactose and xylose-fed rats, 1012/140
- LEVATIN, Paul: Eye findings in strangulation of the optic nerve, 1306
- LEWIS, Earl L.: See HUGHES, Wendell L.
- LEYDHECKER, W.: The technique and organization of mass screening for glaucoma, 748

- LIEBERMAN, Warren J.: See SCHIMEK, Robert A.  
 LINDEKE, Harold I., and MASLER, Sherman R.: Therapy of retinal vein occlusion: Use of fibrinolytic and anticoagulants, 456  
 LINHART, Ralph W.: Resistant staphylococcus conjunctivitis, 819  
 LOEWENFELD, Irene E.: See LOWENSTEIN, Otto  
 LOWENSTEIN, Otto, and LOEWENFELD, Irene E.: Influence of retinal adaptation upon the pupillary reflex to light in normal man: Part II. Effect of adaptation to dim illumination upon pupillary reflexes elicited by bright light, 644

## Me

- MCCARTHY, James L.: Episcleral nodules and erythema nodosum: Report of a case with the pathologic findings, 60  
 MCCASLIN, Murray F.: See LEHMAN, Robert N.  
 McEWEN, W. K.: See SURAN, Anita A.  
 McDONALD, P. Robb: Biography of Irving H. Leopold, M.D., 878/6  
 McFARLAND, Ross A.: See DOMEY, Richard G.  
 McLEAN, John M.: See GALIN, Miles A.  
 McMEEL, J. Wallace: Colistin treatment of experimentally produced *Pseudomonas* corneal infection, 391  
 McPHERSON, Samuel D., Jr.: The use of absorbable sutures in surgery of the cornea, 118

## M

- MAAS, E. R.: See HAGEDOORN, A.  
 MALLERICH, Dallas: See HOLLAND, Monte G.  
 MANN, Ida: Geographic ophthalmology: A study of two isolated island cultures, 1229  
 MARKIEWITZ, Harri H.: See COVELL, Lester L.  
 MARR, William G., and CHAMBERS, Robert G.: Pseudotumor cerebri syndrome: Following unilateral radical neck dissection, 605  
 MARTINEZ, Miguel: A new technique for cutting lamellar grafts, 512  
 MASLER, Sherman, R.: See LINDEKE, Harold I.  
 MATTON-VAN LEUVEN, M. Th.: See STOCKER, F. W.  
 MILLER, James E., JOHNSON, Laverne C., ULETT, George A., and HARTSTEIN, Jack: Photoc driving in amblyopia ex anopsia, 463  
 MRZYGLODI, Stanislaw: See SEGAL, Pawel  
 MURAYAMA, Kenichi: See NIHO, Shoji

## N

- NAQUIN, Howard: Extirpation of conjunctiva, tarsi and lid margins following enucleation of the eye, 227  
 NEWELL, Frank W.: See GOREN, Seymour B.  
 NEWELL, Frank W., GOREN, Seymour B., and CAMPBELL, William L.: Preparation of tritiated acetazolamide by the Wilzbach technique, 323  
 NEWTON, James C.: See WEINGEIST, Samson  
 NIHO, Shoji, YASUDA, Kazuhide, SATO, Tikasi, SUGITA, Sinichiro, MURAYAMA, Kenichi, and OGINO, Norisige: Decompression of the optic canal by the transethmoidal route, 659

## O

- OCAMPO, Geminiano de: A history of Philippine ophthalmology, 93  
 OGINO, Norisige: See NIHO, Shoji  
 OKAMURA, I. D.: See BROCKHURST, R. J.  
 OKSALA, Arvo, and LEHTINEN, Antti: Acoustic bio-microscopy of intraocular tumors, 1203  
 OKUMOTO, Masao: See KIMURA, Samuel J.  
 OKUN, Edward: Gross and microscopic pathology in autopsy eyes: Part III. Retinal breaks without detachment, 369; Gross and microscopic pathology in autopsy eyes: Part IV. Pars plana cysts, 1221  
 O'TOOLE, John J.: See GOREN, Seymour B.  
 OTTER, K.: See WORST, J. G. F.

## P

- PAJOR, R.: See RADNÓT, M.

- PILGER, Irvin S.: Absorbable gelatin film (Gelfilm): In subconjunctival section of lacrimal gland ducts, 1290  
 POLLACK, Frank M.: Morphology of the cornea; Study with silver stains, 1051/179  
 POLLACK, Irvin P., and BECKER, Bernard: The effect of hypothermia on aqueous humor dynamics: IV. Carotid artery ligation and blood flow, 1039/167  
 PYEATTE, J. E.: Ocular uptake of radiothyroxine and radiotriiodothyronine, 1018/146

## R

- RADNÓT, M., and PAJOR, R.: Effect of alpha chymotrypsin on the cornea, 598  
 REESE, Algernon B., and JONES, Ira S.: Exenteration of the orbit and repair by transplantation of the temporalis muscle, 217  
 RIDDEL, G. H.: See FLEMING, T. C.  
 RIISE, Per: The importance of early treatment of esotropia, 634  
 RIZZUTI, A. Benedict: Modified handle for electro-keratome, 524  
 ROBERTS, Winston: See ROGERS, J. William  
 ROGERS, J. William, and ROBERTS, Winston: Scleral rigidity determinations: Before and after tonography, 150  
 ROSENBERG, Alan J.: See SCHWILK, Norman F.  
 ROSS, Joseph V. M.: Ocular varicella: With an unusual complication, 1307  
 RUCKER, C. Wilbur, and KEARNS, Thomas P.: Mistaken diagnoses in some case of meningioma: Clinics in perimetry No. 5, 15; Tobacco amblyopia: Clinics in perimetry No. 4, 509

## S

- SACKS-WILNER, Arthur, and SACKS-WILNER, Erwin: Glaucoma therapy with echthiophate (phospholine iodide), 695  
 SACKS-WILNER, Erwin: See SACKS-WILNER, Arthur  
 SALLMANN, Ludwig von, CARAVAGGIO, Leo L., and GRIMES, Patricia: Studies on the corneal endothelium of the rabbit: I. Cell division and growth, 955/83  
 SAMUELS, S. Lawrence: Juxtatumoral cysts: And other retinal involvement in malignant melanoma of the choroid, 517  
 SATO, Tikasi: See NIHO, Shoji  
 SATO, Tikasi, and BABA, Kenichi: Appearance and disappearance of the fundus disturbance in Oguchi's disease, 243  
 SCHEPENS, C. L.: See BROCKHURST, R. J.  
 SCHIMEK, Robert A., and LIEBERMAN, Warren J.: The influence of Cyclogyl® and Neosynephrine® on tonographic studies of miotic control in open-angle glaucoma, 781  
 SCHLAEGEL, T. F., Jr., ARBOGAST, J. L., and ESTELA, L. A.: The value of the Middlebrook-Dubos hemagglutination test for tuberculosis: When run on aqueous samples of eyes with granulomatous iridocyclitis, 627  
 SCHWILK, Norman F., and ROSENBERG, Alan J.: An evaluation of heparin in the treatment of senile macular degeneration, 57  
 SEGAL, Pawel, JABLONSKA, Stefania, and MRZYGLOD, Stanislaw: Ocular changes in linear scleroderma, 807  
 SERY, Theodore W., and FURGUIEL, Francis P.: The inactivation of herpes-simplex virus by chemical agents, 42  
 SHARMA, B. C., and KULSHRESTHA, O. P.: Neurilemmoma of the orbit, 522  
 SHEA, M.: See ANDERSON, D. L.  
 STATON, Y. A.: An eye-dressing tray, 158  
 STEWART, George M.: Eye protection against small high-speed missiles, 80  
 STOCKER, F. W., MATTON-VAN LEUVEN, M. Th., EIRING, A., GEORGIADIS, R., and GEORGIADIS, N.: Morphologic and histochemical changes occurring in cat corneas during long-term glycerol freezing, 579  
 STREETEN, Barbara Wiard, and FALLS, Harold F.: Hereditary fleck dystrophy of the cornea, 275

- STUART, James A.: A technique for extraocular electro-myography in chronic animals, **1157/285**
- SUGAR, H. Saul: Experimental trabeculectomy in glaucoma, **623**
- SUGITA, Sinichiro: See NIHO, Shoji
- SURAN, Anita A., and McEWEN, W. K.: Diffusion studies with ox vitreous, **814**
- T**
- TABOWITZ, David: See ESPIRITU, Romeo B.
- TENG, C. C.: The fine structure of the corneal epithelium and basement membrane of the rabbit, **278**
- THOMAS, Maxwell, and BURNSIDE, Ronald M.: Von Hippel-Lindau disease, **140**
- THOMPSON, Hardy E., Jr.: See HILGARTNER, Henry L.
- TISCHLER, Bruce: See HOLLAND, Monte G.
- TSUTSUI, Jun: See WATANABE, Sacko
- U**
- ULETT, George A.: See MILLER, James E.
- V**
- VELZEBOER, C. M. J.: See HAGEDOORN, A.
- VOLK, David: Conoid cataract lenses for the correction of aphakia, **615**
- W**
- WALTER, William L.: Pterygium surgery: An evaluation and discussion of various operative procedures with the description of a surgical technique, **441**
- WARFEL, John H.: A case of unilateral degenerative anophthalmia, **698**
- WATANABE, Sacko, and TSUTSUI, Jun: Electrophoretic study of corneal proteins: Comparative analysis of corneal protein fractions in different animal species, **314**
- WEINGEIST, Samson, and NEWTON, James C.: A double traction suture, **1304**
- WEISS, Daniel I., and LEOPOLD, Irving H.: Prognosis of secondary glaucoma following retinal artery occlusion: With the report of an interesting case, **793**
- WELLS, Francis B.: Instrument for goniotomy procedures: And description of a technique for keeping the anterior chamber filled and aiding hemostasis, **527**
- WELSH, Robert C.: The roving ring scotoma: With its jack-in-the-box phenomenon of strong-plus (aphakic) spectacle lenses, **1277**
- WESLEY, Alan C.: See BYRON, Herve M.
- WILLIS, James: See BARBER, Aeleta, N.
- WINTERS, David M., and Asbury, Taylor: Filamentary keratitis: Response to beta radiation, **1292**
- WISE, George N.: Uveitis with secondary retinal arteriosclerosis, **797**
- WOLTER, J. Reimer: Expulsive hemorrhage during retinal detachment surgery: A case with survival of the eye after Verhoeff sclerotomy, **264**; Adhesions of the lens capsule: To the anterior hyaloid membrane, **511**; Diabetic retinopathy, **1123/251**
- WOLTER, J. Reimer, and BENTLEY, Maxwell, D.: Scleromalacia perforans and massive granuloma of the sclera: A report of an unusual combination of ocular pathology in rheumatoid arthritis, **71**
- WOOD, Don C., and BURGESS, Lurrine: An electrophoretic study of soluble lens proteins from different species, **305**
- WOODS, Alan C., and ABRAHAMS, I. Willard: Uveitis survey: Sponsored by the American Academy of Ophthalmology and Otolaryngology, **761**
- WORST, J. G. F., and OTTER, K.: Low vacuum diagnostic contact lenses: Description of a series of self-attaching lenses to be used for diagnostic purposes, **410**
- WUEST, Frederick C., and ERDBRINK, Wayne L.: Posterior embryotoxon: Report of an interesting case, **148**
- Y**
- YASUDA, Kazuhide: See NIHO, Shoji
- YONEDA, Chieko: See HOGAN, Michael J.
- Z**
- ZELMENIS, Ginerva: See DISCHE, Zacharias
- ZIMMERMAN, Lorenz E.: See JONES, Sam T.
- ZWEIGART, Phyllis: See HOGAN, Michael J.

# AMERICAN JOURNAL OF OPHTHALMOLOGY

THIRD SERIES FOUNDED BY EDWARD JACKSON

VOLUME 52  
JULY-DECEMBER, 1961

---

## EDITORIAL STAFF

DERRICK VAIL, *Editor-in-Chief*  
FRANCIS HEED ADLER, *Consulting Editor*  
ALAN C. WOODS, *Consulting Editor*

BERNARD BECKER  
WILLIAM L. BENEDICT  
FREDERICK C. CORDES  
SIR STEWART DUKE-ELDER  
EDWIN B. DUNPHY  
F. HERBERT HAESSLER  
PARKER HEATH  
S. RODMAN IRVINE  
BERTHA A. KLIEN

JAMES E. LEBENSOHN  
DONALD J. LYLE  
WILLIAM A. MANN  
P. ROBB McDONALD  
A. EDWARD MAUMENEE  
FRANK W. NEWELL  
JOHN V. V. NICHOLLS  
ALGERNON B. REESE  
PHILLIPS THYGESON

KATHERINE FERGUSON CHALKLEY, *Manuscript Editor*  
MILDRED SKINNER, *Advertising and Business Manager*

## COLLABORATORS

JOSEPH E. ALFANO, *Chicago*; EUGENE M. BLAKE, *New Haven*; SYLVAN BRANDON, *Houston*; JAMES W. BRENNAN, *Buffalo*; WILLIAM C. CACCAMISE, *Rochester, New York*; ALSTON CALLAHAN, *Birmingham*; THOMAS H. F. CHALKLEY, *Chicago*; RAY K. DAILY, *Houston*; IRWIN E. GAYNON, *Milwaukee*; VICTOR GOODSIDE, *Bronx, New York*; BERTHA T. HAESSLER, *Alamo, California*; HARRY HORWICH, *Coral Gables*; MORRIS KAPLAN, *Denver*; GYULA LUGOSSY, *Budapest, Hungary*; WALTER MAYER, *Richmond, Virginia*; PAUL W. MILES, *Saint Louis*; EDWARD U. MURPHY, *Evansville, Indiana*; GUNTHER K. VON NOORDEN, *Iowa City*; LAWRENCE T. POST, *Saint Louis*; DAVID SHOCH, *Chicago*; JOHN J. STERN, *Utica, New York*; PHILLIPS THYGESON, *San Jose, California*; A. URRETS-ZAVALIA, JR., *Cordoba, Argentina*.

PUBLISHED BY THE OPHTHALMIC PUBLISHING COMPANY  
664 North Michigan Avenue, Chicago 11, Illinois

THE JOURNAL OF THE

ROYAL ANTHROPOLOGICAL INSTITUTE

OF GREAT BRITAIN AND IRELAND

Volume 100, Part 1, 1970

Edited by

Professor Sir

John

# SUBJECT INDEX

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

## A

- A and V syndrome**, 172  
 present status of, **396**  
**Abnormalities:** See Congenital anomalies  
**ABSTRACTS:** 131, 289, 429, 580, 737, 1007
1. Anatomy, embryology and comparative ophthalmology, 289, 429, 737
  2. General pathology, bacteriology, immunology, 131, 289, 737
  3. Vegetative physiology, biochemistry, pharmacology, toxicology, 131, 290, 429, 739
  4. Physiologic optics, refraction, color vision, 133, 293, 432, 742
  5. Diagnosis and therapy, 135, 294, 433, 744
  6. Ocular motility, 137, 297, 438
  7. Conjunctiva, cornea, sclera, 138, 298, 440
  8. Uvea, sympathetic disease, aqueous, 141, 301, 440
  9. Glaucoma and ocular tension, 143, 302, 442, 1007
  10. Crystalline lens, 308, 446, 580, 1011
  11. Retina and vitreous, 309, 455, 581, 1013
  12. Optic nerve and chiasm, 312, 585, 1017
  13. Neuro-ophthalmology, 313, 586, 1017
  14. Eyeball, orbit, sinuses, 314, 519, 1019
  15. Eyelids, lacrimal apparatus, 316, 594, 1020
  16. Tumors, 317, 596, 1021
  17. Injuries, 317, 597, 1022
  18. Systemic disease and parasites, 318, 598, 1024
  19. Congenital deformities, heredity, 320, 601
  20. Hygiene, sociology, education and history, 320, 603, 1025
- ACCOMMODATION:** after age of 40 years, **702**  
 applanation tonometry and, 143  
 in amblyopia, **197**  
 paralytic unilateral, **711**  
 spasm of, in CNS disease, 1018  
 vergence and, pupil size change and, **762/330**  
**Acetazolamide**, transient myopia due to, 739  
 See also under product names  
**ACIDS:** alpha ketoglutaric in lens, 58  
 desoxyribonucleic in eye, 292  
 lactic, in aqueous and plasma, 431  
 in lens, 742  
 neuraminic, in vitreous, 459  
 pyruvic, in lens, 742  
 sialic, in eye, 291  
 tiotic, action on vision, 131  
**Acoustic stimuli**, effect on visual functions, 744  
**ACTH**, in corneal ulcers, 299  
 in retinal vascular disturbances, 133  
**Actinomycosis**, of lacrimal canaliculi, **36**  
**Adaptation**, pupillary movements in, 134  
**Adaptometry**, in glaucoma, 307  
**Adenocarcinoma**, of optic nervehead, 596  
**Adenomas**, pituitary, semiology of, 588  
**Adie syndrome**, tonic pupil and, 590  
**Adrenoxyl**, in hyphema, 1013  
**After-image**, test, refinement of, **713**  
**Age**, accommodation after 40 years of, **702**  
 retinal vascular patterns in, 311  
**Akinesia**, oculomotor of anesthetics, 740  
**ALLERGY:** bacterial of eye, 290  
 catgut, in muscle surgery, 297  
 eye diseases due to, 301  
 uveitis due to, **Anergex** in, **340**  
**ALPHA CHYMOTRYPSIN:** 446  
 cataract extraction with, 452, 453  
 effect on viscosity of vitreous, **374**  
 gonioscopy and electrotonography to study effects of, 451  
 in congenital cataract, 447  
 influence on vitreous, **374**, 458  
 method for use in cataract surgery, **263**  
 See also Chymotrypsin and Zonulolysis  
**Alpha crystallin**, chemical structure of, 431  
**Amaurosis**, eclamptic, 1024  
**Amaurotic infantile family idiocy**, **410**  
**Ammonium**, effect on rabbit pupil, **526**  
**AMBLYOPIA:** accommodation in, **197**  
 ex anopsia, fixation anomalies in, **19**  
 hypnotherapy in, follow-up study, **690**  
 in strabismus, film visuscope for, 138  
 occlusion in, 745  
 polaroid glasses for, 742  
 pleoptics in, 745  
 pursuit movements in, 439  
 suppression, treatment of, 745  
 toxic, due to phenepazine hydrochloride, 741  
 visuscope to treat, 134  
**Amyloidosis**, pseudotumoral edema of conjunctiva and, **901**  
**Anderson**, Joseph Ringland, **281**  
**Anemia**, iron deficiency, optic neuritis in, **276**  
 pernicious, retrobulbar neuritis and optic atrophy in, 1018  
 scotoma as symptom of, 600  
**Anergex**, effect on immunologic uveitis, **340**  
**Anesthesia**, local, in cataract surgery, 580  
 oculomotor akinesia of, 740  
 retrobulbar, Privity and, 137  
**Aneurysm**, cerebral, in migraine, 589  
 micro-, in diabetes, 459  
 of internal carotid, 313  
**Angioid streaks**, lens dislocation and, 441  
 mottled fundus and, 311  
 pseudoxanthoma elasticum and, 1014  
**Animals**, ophthalmoscopy of, facial paralysis aid in, 296  
**Aniridia**, iris defects in hereditary, 601  
**Anisometropia**, high myopic, tonography to study, 307  
**ANTERIOR CHAMBER:** angle of, atrophy corneoscleral trabeculae and, 141  
 foreign body at, 1023  
 in Marfan's syndrome, 142  
 in primates, **529**  
 photocoagulation of, **163**  
 shortened, differential diagnosis of, **492**  
 stereophotography of, 746  
 depth, recording of, 135  
 fibrinolysis in, 292  
 hydrocortisone retention in, 293  
 implants: See implants and Intraocular lens  
 sutures in, to lower ocular tension, 445  
**Anterior segment**, stereophotography of, 746  
 tumors of, 1022  
**ANTIBIOTICS:** ocular flora sensitive to, 290  
 staphylococcus sensitive to, 289, 737  
**Antibody**, deficiency, after herpes simplex vaccine, **569**  
 fluorescent, to localize viral antigenic material, **72**  
**Anticholinesterase agents**, in myasthenia gravis, **331**  
**Antistreptodornase levels**, in uveitis, 441  
**Aortic arch syndrome**, 599  
**APHAZIA:** anterior chamber implants in, 308  
 binocular vision in unilateral, **81**  
 correction of, **423**  
 plastic operation for, 300  
 pupil block in, **270**  
**AQUEOUS:** dynamics, action histamines on, 740  
 influence photocoagulation on, **163**  
 floaters, due to mydriatics, 295  
 flow, measuring, 746  
 formation, electrochemical changes in, 430  
 lactic acid concentration in, 431  
 outflow, coefficient of, 143  
 pathways, difference in structure of, 303  
 prednisolones in, **77**  
 Toxoplasma in, 738  
 urea levels in, 431  
**Arcus lipoides corneae**, arteriosclerosis and, 440  
**Argemone oil**, epidemic glaucoma and, 290  
**Armed Forces Institute of Pathology**, **927**  
**Arteriosclerosis**, arcus lipoides corneae and, 440  
**Arteritis**, temporal, complications of, 601  
 eye involvement in, 319

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Arthritis, rheumatoid, steroid therapy and cataracts in, **831/399**  
 Ascher syndrome, 595  
 Aspergillus, infections of cornea, 139  
 Asthenopia, 742  
 Astigmatism, myopic, in new syndrome, 53  
 Atropine, cholinesterase neutralization by, **841/409**  
   cycloplegia, 132  
   effect of, 740  
 Aviation, optical problems in, 604
- II**
- Bacteria, allergy to, 290  
 Bagley, Cecil Hopkins, **125**  
 Barbiturates, effect on vascular reflex in glaucoma, 1008  
 Bartisch, George, oculist of 16th century, 321  
 BC-48, in glaucoma, 553  
 Behçet's disease, histopathology of, 320  
   neurologic manifestations of, 587  
   pseudoretinitis pigmentosa and, 583  
   virus of, isolation from hypopyon, 131  
 Beta irradiation, See under Radiation  
 Biohemophotometry, of uvea, 136  
 Biotin deficiency, eye manifestations of, 291  
 Blepharitis, Linomag in, 594  
 Blepharochalasis, in Ascher syndrome, 595  
   treatment of, 314  
 Blepharoptosis, congenital, 1020  
 BLINDNESS: functional recovery from, 589  
   in infants, diagnosis of, 438  
   examination for, 743  
 Toxocara canis and, 1024  
 Blindspot, effect ultrasound on, 1023  
 BLOOD: circulation, collateral to eye, **381**  
   ocular tension and, 445  
   of uvea, measuring, 136  
   deproteinized, effect on retinal metabolism, 310  
   ophthalmic artery, pressure in, 294  
   changes after carotid occlusion, 318  
   oxygenation of, in fundus, 433  
   plasma, electrophoresis of, 132  
   lactic acid in, 431  
   pressure, ocular tension and, 307  
   venous, 444  
   raised, ocular tension and rigidity in, 442  
   supply, collateral of orbit, 314  
   vessels, of optic nerve, 289  
   permeability of, 292  
 Boeck's sarcoid, of fundus, **633**  
 Bonnevie-Ullrich syndrome, **207**
- BOOK REVIEWS:** **127, 285, 425, 578, 733, 1003**  
 All-India Ophthalmological Society, Proceedings, **427**  
 American Ophthalmological Society, Transactions, **286**  
 Canadian Ophthalmological Society, Transactions, **579**  
 Casanovas, J.: *Cursillo de Tracomatología*, **129**  
 Conn, Howard F. (editor): *Current Therapy*, **288**  
 Duke-Elder, Sir Stewart: *System of Ophthalmology: Volume II*, **733**  
 Gabersček, Viktor: *L'Electro-Oculographie*, **428**  
 Guillaumat, L., Pautique, L., De Saint-Martin, R., Schiff-Wertheimer, S., and Sourdille, G.: *Traitement Chirurgical des Affections Oculaires: Volume II, Volume III*, **1003**  
 Hughes, William F.: *The Year Book of Ophthalmology (1960-1961)*, **285**  
 Kevorkian, Jack: *The Story of Dissection*, **1006**  
 Koskenoja, M.: *Alloxan Diabetes in the Pregnant Mouse*, **579**  
 Kybernetik (a new journal), **427**  
 Lyle, T. Keith: *Re-educative Treatment of Suppression Amblyopia*, **288**  
 McCauley, W. A.: *The Blind Person as a College Teacher*, **1006**  
 Macpherson, R. K. (editor): *Physiological Responses to Hot Environments*, **428**  
 Ogle, Kenneth N.: *Optics: An Introduction for Ophthalmologists*, **578**  
 Pacific Coast Oto-Ophthalmological Society, Transactions, **287**
- BOOK REVIEWS (continued)**  
 Piéron, Henri: *Vision of Intermittent Light: Laws and Mechanisms of Critical Fusion Frequency*, **578**  
 Radnóti, M.: *Neuro-endocrine Aspects of Ophthalmology*, **1004**  
 Raman, Sir C. W.: *The Perception of Light and Color and the Physiology of Vision*, **427**  
 Senden, M. von: *Space and Light*, **1005**  
 Smelser, George K.: *The Structure of the Eye*, **734**  
 Velhagen, Karl: *Der Augenarzt: Volume III*, **127**  
 Verriest, Guy: *A Study of the Achromatic Visual Functions in the Congenital Sensory Abnormalities of the Human Eye and in some Amphibians and Reptiles*, **130**  
 Weinstein, Paul: *Primary Glaucoma*, **426**  
 Welsh, Robert C.: *Postoperative-Cataract Spectacle Lenses*, **425**  
 Wolstenholme, G. E. W., and O'Connor, M. (editors): *The Nature of Sleep*, **736**  
 Bourneville disease, involving ciliary body, 309  
 BRAIN: injuries, fundus changes in, 597  
   lesions after, 585  
   visual disturbances after, 588  
   tumors of, early diagnosis of, 1019  
 Bromine, effect on vascular reflex in glaucoma, 1008
- C**
- Cajal, microscopic anatomy visual apparatus and, 605  
 Calcium, in pseudoxanthoma elasticum, 740  
 Campimetry, in simple glaucoma, 445  
 Canaliculitis, streptothrix, 36  
 Carbonic anhydrase inhibitors: See under Daranide, Diamox, etc.  
 Carcinoma, bronchogenic, of choroid, **107**  
   of conjunctiva, after enucleation, 299  
 Carcinomatous meningitis, eye signs in diffuse, **681**  
 Cardiac surgery, neuro-ophthalmic complications of, 313  
 CAROTID: compression test, **862**  
   insufficiency, 1024  
   internal, aneurysms of, 313  
   thrombosis of, eye symptoms in, 601  
   retinal artery pressure in diagnosing, **862**  
   occlusion, ophthalmic artery changes after, 318  
   thrombosis, eye signs in, 437  
 Carotid-cavernous fistula, spontaneous healing of, 600  
 Cartilage, tolerance to autologous, 431  
 CATARACTS: canine, 580  
   congenital **446, 449**  
   alpha chymotrypsin in, **447**  
   classification of, **361**  
   linear extraction in, **355**  
   needling of, **347**  
   review 84 cases, **368**  
   surgery of, **361, 453**  
   syndromes with, **207**  
   coronary, 453  
 EXTRACTION: alpha chymotrypsin in, **452, 453**  
   anterior chamber lens in, 308  
   by expression, 309  
   by eye residents, **111**  
   corneal sensitivity after, 453  
   crisophake and Arruga forceps in, **1012**  
   in deep corneal dystrophy, **677**  
   in high myopia, 451  
   intumescent, low temperature in, 581  
   ocular tension after, 580  
   of immature nuclear, 309  
   suction in, 450  
 ZONULOLYSIS in, **447, 451, 580**  
   experiences in 812 with, **195**  
   formation of, after strontium<sup>90</sup>, **573**  
   PAEE-enzyme and, **65**  
   fusiform, 448  
   galactose, **446, 451**  
   in Paris sight-saving classes, 448  
   in rheumatic arthritis, steroid therapy and, **831/399**  
   intumescent, low temperature in extraction of, 581  
   knife, handle for, 295  
   lipoprotein metabolism in, 454

# SUBJECT INDEX

V

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

## CATARACTS (continued)

- patients, contact lens for postoperative, 135
- peptidase, contact lens in, 452
- phosphorylation in, 454
- photocoagulation in, 454
- senile, age incidence in, 1013
- 5-0A in urine in, 309
- SURGERY, 990**
  - adrenoxyl in, 1013
  - chymotrypsin in, method for use of, 263
  - local anesthesia in, 580
  - traumatic, in children, results of treatment, 43
  - umbilicata, 448
  - weight and water content of, 446
  - xylose, 1012

Central nervous system, accommodation spasm in diseases of, 1018

Chalazion retractor, 260

Chickenpox, facial paralysis and, 723

**CHILDREN:** preschool, near-vision test for, 712

reading disabilities in, 572

school, near vision in, 732

ophthalmology and health of, 278

visual screening in, 278, 283

comparison, two tests for, 511

traumatic cataract in, results treating, 43

uveitis treatment in, 44

Chloroquine, retinopathy after, 584

Chlorpropamide, centrocecal scotomas due to, 741

Cholesteatoma, of pterygoid, 315

Cholesterol, in lens, 1013

Choline deficiencies, eye manifestations of, 291

Cholinesterase, blood levels in glaucoma, 242

inhibition, neutralization by oximes and atropine, 841/409

Chorea, Sydenham's, papilledema in, 1017

Chorioretinal, cicatrization, traction forces induced by, 767/335

lesions, produced by photocoagulation, 487

Chorioretinitis, progressive bilateral, Kodachrome record for 18 years, 343

**CHOROID:** blood content of, effect on ERG, 742

bronchogenic carcinoma of, 107

larva of, pseudoglioma due to, 310

melanoma of, delayed metastasis in, 317

ultrasound to examine, 437

vascularization in rabbit, 807/375

**CILIARY BODY:** argyrophil fibers of healthy, 429

Bourneville disease involving, 309

electromicroscopy of, 142

irradiation of, ocular hypertension and, 434

photocoagulation of, 156

serous detachment of, hypotony and, 609

Ciliary muscle, innervation and contraction of, 441

Cockayne's disease, 116

Codehydrase I, in lens, 739

Collagen, diseases, eye manifestations of, 599, 600

formation fibers of, 429

Coloboma, heredity in, 737

of fundus, 455

of iris, congenital glaucoma and, 602

Color blindness, optic nerve atrophy and 432

test for night, 744

Color perception, heredity in, 293

in macular diseases, 293

Color thresholds, deviation in disease, 432

Color vision, spectral hue loci of trichromates, 166

test, evaluation Tokyo Medical College, 650

Compensation: See Disability compensation

Congenital anomalies, apical, congenital cataract and, 207

cerebral, migraine symptoms with, 993

due to X-rays, in mice, 598

in idiopathic retinal detachment, 582

in maternal rubella, 602

of meibomian gland, 1021

**CONJUNCTIVA:** argyrosis of corneal and, 140

carcinoma of, after enucleation, 299

effect topical epinephrine on, 429

effect topical phenylephrine on, 429

## CONJUNCTIVA (continued)

epithelial cells, test for viability and vitality of, 923

fungus infections of, 300

hemangioma of, pedunculated, 266

kerato-acanthoma of, 596

lymphosarcoma of, 412

mycotic flora of, 619

parasitic infections of, 139

pseudotumoral edema of, 901

staphylococci infections of, 289

vascular stasis in, sign sickle-cell disease, 748

Conjunctivitis, bacterial, due to eye ointment base, 251

Contact lens, corneal, in high altitudes, 294

for postoperative cataract patient, 135

iris-corneal, 264

problems of, 706

Convalescent serum, in epidemic keratoconjunctivitis, 140

Corepraxia, photocoagulation for, 137

**CORNEA:** arcus lipoides of, 440

aspergillosis of, 139

degeneration of, juvenile mosaic, 299

dysgenesis of, gonioscopic findings in, 602

dystrophy, endothelial, 299

Fuchs', 440

hereditary deep, lens extraction in, 677

paraproteinemia and, 895

endothelium of, tritium retention in, 298

epithelium, cells, test for viability and vitality of, 923

glycoprotein of, 741

transaminase action of, 293

in conjunctival argyrosis, 140

inflammation of, degradation factor in, 737

injuries of, from flowering tree, 139

Krukenberg spindles of, in pigmentary glaucoma, 880

megalo-: See Megalocornea

micro-, congenital glaucoma and, 602

nebulae of, in new syndrome, 53

sensitivity, after cataract extraction, 453

surgery of, advance in, 300

catgut sutures in, 140

transparency, test for, 301

ulcers, ACTH in, 299

marginal, 301

pyrogen in, 139

virus etiology of rodent, 140

Corneal transplantation: See Keratoplasty

**CORRESPONDENCE:** 126, 262, 423, 577, 732, 1002

An aid in minor surgery, 424

Colorado resolution, 424

Correction of aphakia, 423

Correction: Subhyaloid hemorrhage, 732

Correction: Uveitis survey, 282

Decompression of optic canal, 577

Handle for electro-keratome, 284

Intra-Tenon capsule injection, 126

Keratitis medicamentosa, 282

Near visual acuity in school children, 732

Need in India, 577

Orinda vision study, 283

Patients on Equanil and Meproamate, 1002

Sectioning the optic nerve, 283

South American ophthalmology, 1002

Terminology in operations on iria, 424

Corticosteroids, in herpes zoster, 135

in sarcoidosis, 633

Craniofacial dysostosis, 602

Craniosynostosis, 1024

Culler, Arthur M., 125

Cycloplegia, scopolamine and atropine in, 740

comparison of, 132

tropicamide for, 290, 741

Cysticercus, intraocular bilateral, 319

**CYSTS:** colobomatous, 455

of retina, 582

subretinal hydatid, 981

Cytoid bodies, nature of, 1013

D

Dacryocystitis, dacryocystography in, 245

Dacryocystography, in dacryocystitis, 245

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Dacryocystorhinostomy, 317, 594  
 instrument for, 1020  
 Daranide, in glaucoma, 302  
 Daraprim, penetration into monkey eye, 402  
 Dark adaptation, after high illumination, 293  
   in glaucoma, 302  
   in road traffic, 133  
 Davenport, Robert Cecil, 422  
 Deafness, in renal disease, 601  
   retinitis pigmentosa and, 457, 575  
 DeLong, Perce, 732  
 Demecarium bromide (BC-48), in glaucoma, 553  
 Dermatitis, pigmentary, congenital cataract and, 207  
 Descemet's membrane, doubling of after keratoplasty, 298  
   wrinkles in, in diabetes, 371  
 Deviations of eye, 438  
 Dextro-thyroxine, in postthyrotoxic exophthalmos, 145, 1019  
**DIABETES:** alloxan, vitreous in, 1014  
   Descemet's wrinkles in, 371  
   lipemia retinalis in, 1013  
   retinal blood vessels in, 1017  
   retinal microaneurysms in, 459  
   scotomas after Diabinese, 741  
   vascular lesions of, effect weight on, 310  
 Diabetic retinopathy, corneal wrinkles and, 371  
   Durabolin in, 584  
   hemorrhagic, hypophyseal stalk section in, 993  
   remissions in, 1015  
 Diamox, refraction changes after, 295  
 Diathermocautery, of sclera, in glaucoma, 305  
 Diplopia, in melanosis with progressive myopathy, 1024  
   traumatic, 592  
 Disability compensation, ocular, 745  
 Drusen, of optic nerve in intracranial tumor, 585  
 D-tubocurarine, action on extraocular muscles, 138  
 Durabolin, in diabetic retinopathy, 584  
 Dyscephaly, congenital cataract and, 207  
 Dysostosis, mandibulofacial, 521  
 Dystrophia myotonica, 256, 599  
   electromyography in, 434

## E

- Eales' disease, photocoagulation in, 1015  
 Echogram, of opaque and transparent lens, 452  
 Echthiophate, effect on rabbit pupil, 526  
   iodide, in indigent clinic glaucoma patient, 867  
**EDITORIALS:** 123, 277, 415, 575, 729, 995  
   Academy—1961 model, 729  
   Declaration of medical principle, 998  
   International Council of Ophthalmology, 421  
   Mid-year meetings, 1961, 415  
   National Medical Foundation for Eye Care: Fifth annual report of the president, 995  
   1961 Oxford Ophthalmological Congress, 418  
   Official badge, 731  
   Ophthalmology and school health, 278  
   Prognosis of the eye signs in Graves' disease, 123  
   Retinitis pigmentosa and congenital deafness, 575  
   Scientific tools and proprietary prerogatives, 277  
 Egyptian eye myths, 1026  
 Electro-encephalography, in retinitis pigmentosa, 455  
   to measure cortical time, 747  
 Electromyography, 747  
   electroretinography and, 435  
   in dystrophia myotonica, 434  
**ELECTRON MICROSCOPY:** of ciliary body, 142  
   of pigment epithelium, 293  
   of retinal cones, 584  
   to study herpetic keratitis, 738  
   to study optic nerve degeneration, 586  
   to study Pfeiffer bacillus, 738  
   to study Week's bacillus, 738  
 Electro-oculography, during retinal detachment therapy, 1014  
   in health and disease, 436  
   to study eye movements, 748  
 Electrophoresis, in paraproteinemia, 895  
   of blood plasma, 132  
   of lens proteins, 132

- ELECTRORETINOGRAPHY:** after light stimulation, 743  
   collateral circulation to eye and, 381  
   electromyography and, 435  
   gold ring electrode for, 297  
   in central retinal detachment, 1016  
   in newborn, 312  
   in papilledema, 435  
   response to coupled stimulations, 132  
   retinal and choroidal blood content and, 742  
 Endophthalmitis, after glaucoma surgery, 275  
 Endothelioma, of eyelid, 594  
   of orbit, 317  
 Entropion, noncicatrical, treatment of, 316  
   senile spastic, operation for, 273  
 Enucleation, conjunctival carcinoma after, 299  
 Enzymatic zonulolysis: See Zonulolysis  
 Enzymes, in hematoma, 132  
   in hyphema, 132  
 Enzymology, of refractory media of eye, 65  
 Epidemic keratoconjunctivitis: See under Keratoconjunctivitis  
 Epinephrine bitartrate, effect on ocular tension, 1010  
 Epiphyses, stippled, congenital cataract and, 207  
 Epithelioma, of eyelid, 1  
   of orbit, 592  
 Erythema nodosum, sclerokeratitis and, 269  
 Euthyscope, modification of, 406  
 Evisceration, 301  
   luxite implant in, 314  
**EXOPHTHALMOS:** 123  
   dextro-thyroxine in, 145, 1019  
   endocrine, 1019  
   hormonal, management of, 591, 592, 593  
   in myxedema and amyloidosis, 901  
   management of, 591  
   postthyrotoxic, dextro-thyroxine in, 145  
   thyrotropic, medical treatment of, 145  
   surgical treatment, 145  
   unilateral, 10  
**EYE:** bromide turnover in, 430  
   cell turnover in adult, 291  
   diseases, allergic, 301  
   iodide turnover in, 430  
   myths, old Egyptian, 1026  
   ointments, bacterial conjunctivitis due to, 251  
   terramycin, 269  
   sialic acids in, 291  
   signs, in migraine headache, 313  
   thermo-electric measurements in, 136  
 Eyebrow, nevus of, 587  
 Eyedrops, scopolamine, 741  
   Tosmilen, 443  
 Eyelashes, forceps for epilation of, 571  
**EYELIDS:** anatomy of, 594  
   blepharitis: See Blepharitis  
   cancer of, X-ray therapy in, 1021  
   closure, on mouth opening, 591  
   congenital drooping of, 1020  
   endothelioma of, 594  
   epithelioma of, 1  
   fixation forceps for, 407  
   folds, senile, treatment of, 314  
   halving procedures 316  
   hydrops of, 1020  
   malignancies, use and misuse radiation in, 1  
   movements, abnormal in 7th nerve paresis, 594  
   operations, for almond eyes, 122  
   plastic surgery of, 1022  
   proliferation of, 1021  
   surgery, in malignancies of, 1  
   swelling of, in malignant lymphoma and varicella, 438  
   tumors of, excision and repair, 595  
   upper, surgical formation of, 594

## F

- Facial paralysis, chickenpox and, 723  
 Fibrinolysis, in human eye, 294  
   of anterior chamber, 292  
 Fixation anomalies in amblyopia ex anopsia, 19  
 Fluorescein test, reliability of, 292

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

Fluorescent-antibody technique, to study herpes simplex, etc., **72**

Fonurit, refraction changes after, **132**

See also Diamox

**FOREIGN BODIES:** anterior chamber angle and, **1023**

glass, extraction after 14 years, **1023**

intraorbital, **317**

minute metallic, **597**

nonmagnetic, removal of, **598**

on sclera and optic nerve, localization and extraction of, **1022**

retrobulbar, removal large, **715**

Franceschetti syndrome, **521**

Frankfurt am Main, ophthalmology in, **603**

Fructose, formation in lens, **431**

**FUNDUS:** Boeck's sarcoid of, **633**

changes, after hemorrhage, **458**

in brain injuries, **597**

in pregnancy, **455**

colobomas and colobomatous cysts of, **455**

mottled, in pseudoxanthoma elasticum, **311**

oxygenation blood in, **433**

photography, in retinal disease, **457**

sarcoid of, **456**

Fungus infections, of conjunctiva, **300**

of lacrimal duct, **619**

Fusion frequency, action tranquilizers on, **131**

## G

Germany, ophthalmology in, **1958, 320**

Georgian Republic, first ophthalmic meeting in, **1025**

Giardiasis, uveitis and, **440**

Glare, in road traffic, **133**

**GLAUCOMA:** absolute, retinal vascular patterns in, **311**

acute angle-closure, urea in, **323, 875**

adaptometry in, **307**

after syphilitic interstitial keratitis, **1008**

angle-closure, gonioscopy in, **492**

urea in, **304, 872, 992**

atrophy corneoscleral trabeculae and, **141**

blood cholinesterases levels in, **242**

campimetry in: See Campimetry

chronic, tonosphygmography in, **445**

compression therapy in, **442**

congenital, bilateral, **307**

microcornea, iris coloboma and, **602**

Daranide in, **302**

dark adaptation in, **302**

diagnosis, suction cup method for, **1007**

Diamox in: See Diamox

diathermocoagulation sclera in, **305**

echothiophate iodide in, **867**

effect epinephrine bitartrate on, **1010**

effect photocoagulation ciliary body on, **156**

epidemic, argemone oil and, **290**

heterochromic iritis and, **304**

high myopia and, **1007**

management of, in indigent clinic patient, **867**

tonography in, **306**

medical control of, BC-48 in, **553**

of chronic simple, **304**

Tosmilen in, **308**

microphthalmos and, **1011**

open-angle tonography to diagnose, **306**

operations, emergency preparation for, **444**

external filtering, **727**

gonioscopy and function test after Elliot's, **1009**

hemorrhage into lens complicating, **453**

iridodiolysis, **1008**

limboscleral trephination, **29**

new, **503**

out-patients, therapy of, **303, 867**

pathomechanism of, **1011**

patients, water drinking test in, **15**

pigmentary, **306, 880, 1009**

primary, diagnosis early, **444**

preference for left eye, **303**

retinal detachment and, **1010**

secondary, **270**

to retinal artery occlusion, **308**

**GLAUCOMA (continued)**

surgery, **991**

endophthalmitis after, **275**

tests, water provocative, **15**

tonography in, **306**

See also Tonography

urea in, **443, 581**

clinical study of, **323**

See also Urea

vascular reflexes in, **1008**

effect drugs on, **1008**

Glioma, of optic nerve, operation for, **312**

Glucose, in lens **581**

Glycoprotein, of corneal epithelium, **741**

Goethe's spectacles, **1026**

Goniophotography, **745, 747**

**GONIOSCOPY:** after Elliot's trephination, **1009**

in diagnosing shortened angle, **492**

in dysgenesis cornea and iris, **602**

in lens colobomas, **492**

in subluxated lens, **492**

to study effects alpha chymotrypsin, **451**

Granuloma, of orbit, **593**

Granulomatosis, Wegener's, **591**

Graves' disease, **145**

prognosis, eye signs in, **123**

Groenblad-Stranberg syndrome, **1014**

## H

Harada's disease, **441**

Headache, migraine, eye signs in, **313**

Hemangioma, of orbit, **596**

pedunculated of conjunctiva, **266**

Hematoma, enzymes in, **132**

Hemeralopia, vitamin-A deficiency and, **294**

Hemianopia, bilateral, **990**

homonymous, visual hallucinations and, **274**

**HEMORRHAGE:** expulsive, prevention of, **296**

fundus changes after, **458**

into lens, **453**

neuroretinopathy after, **1013**

subhyaloid, **257**

correction for paper on, **732**

Heredity, color perception and, **293**

in colobomatous formations, **737**

in keratoconus posticus circumscriptus, **53**

Herpes, keratitis: See Keratitis

simplex, fluorescent antibodies in, **72**

vaccine, deficiency antibodies after, **569**

zoster, corticosteroids in, **135**

Heterochromia, Fuchs, iritis, glaucoma and, **304**

syndrome Claude Bernhard and Fuchs and, **141**

Heterophoria, of Johannes Mueller, **724**

Hexosamine, content of lens, **581**

Histamines, action on aqueous, **740**

Hodgkin's disease, eye changes in, **600**

Hospitals, infections in, **603**

management of retinal detachment, **548**

Hungarian Ophthalmological Society, **269**

Hyaluronic acid, as vitreous substitute in retinal de-

tachment, **457**

Hyaluronidase, effect on vitreous viscosity, **374**

Hydrocortisone, retention in anterior chamber, **293**

Hypertension, ocular, high myopia and, **1007**

retinal and heart findings in, **746**

retinal vascular patterns in, **311**

Hyperthyroidism, **123**

Hyphema, adrenoxyl in, **1013**

enzymes in, **132**

experimental, **58**

radioactive study of, **292**

Hypnotherapy, in amblyopia, follow-up study, **690**

Hypophyseal stalk section, in hemorrhagic diabetic

retinopathy, **993**

Hypopyon, Behcet's virus isolated from, **131**

gelatin antibiotic disc to treat, **299**

Hypotony, major cause of, **609**

## I

Ichthyosis, congenital cataract and, **207**

Icterus, hemolytic, congenital cataract and, **207**

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Illumination, focal, instrument for, 436  
 high, dark adaptation after, 293  
 in road traffic, 133  
 Implants, anterior chamber, all acrylic, 1011  
 in aphakia, 308  
 Ivalon, 314  
 Ixite, in evisceration, 314  
 Incontinentia pigmenti, congenital cataract and, 207  
 India, need in, 577  
 Industry, eye accidents in, 320  
 INFANTS: blindness diagnosis in, 438  
 examination for blindness in, 743  
 premature, *Pseudomonas* eye infections causing death in, 299  
 visual defects in, 743  
 visual development in, 134  
 Infections, hospital, 603  
 Inflammations, fluorescein test in, 292  
 of cavernous sinus, ophthalmoplegia and, 438  
 pancreatic dornase in, 572  
 INJURIES: analysis of eye, 597  
 brain, fundus changes in, 597  
 visual disturbances after, 588  
 cranial, optic nerve lesions after, 585  
 diagnosis of eye, in multiple injuries, 435  
 foreign bodies: See Foreign bodies  
 neck, iris atrophy after, 302  
 oculo-palpebral synkinesis after cranial, 1017  
 of cornea, from flowering tree, 139  
 photocoagulation produced, 487  
 visual hygiene and, 320  
 INSTRUMENTS: arm rest for ophthalmic surgery, 568  
 cataract knife, handle for, 295  
 chalazion retractor, 260  
 cilia forceps, 571  
 corneal forceps, 435  
 dental mirror as eye, 295  
 deviometer, 438  
 electric erisophake, 269  
 electronic, for retinal detachment surgery, 311  
 electronic ophthalmodynamometer, 570  
 film visuscope, 138  
 for after-image test, 715  
 for dacryocystorhinostomy, 1020  
 for focal illumination, 436  
 for mushroom corneal grafts, 239  
 fornix depressor, 259  
 gold ring electrode for ERG, 297  
 handle for electro-keratotome, 284  
 improved cutting edge for eye, 413  
 lid fixation forceps, 407  
 miniature diathermy apparatus, 295  
 modified euthyscope, 406  
 occluder for strabismus, 433  
 photocoagulator, experiences with new, 479  
 prerogatives in use of, 277  
 pressure-sensitive crystal oscillator, 984  
 projector chart, 988  
 rust-ring remover, 122  
 stereoscopic test charts, 133  
 suction cup for glaucoma diagnosis, 1007  
 to calibrate ophthalmodynamometer, 1009  
 to insert encircling tubes, 260  
 to treat strabismus, 433  
 tonosphygmometer, 445  
 trabeculotomy, 294  
 traction suture deflector, 414  
 Intraocular lens, calculation for, 438  
 Strampelli, in unilateral aphakia, 81  
 Intraocular pressure: See Ocular tension  
 Iontophoresis, damage to eye from (rabbit), 293  
 Iridectomy, effect on hyphema, 58  
 Iridocyclitis, effect on hyphema, 58  
 trephination and, 443  
 Iridentasis, 1008  
 IRIS: atrophy, after neck injury, 302  
 essential, 442  
 coloboma, congenital glaucoma and, 602  
 defects, in hereditary aniridia, 601  
 dysgenesis, gonioscopic findings in, 602  
 muscle, pharmacologic effects of, 739  
 IRIS (*continued*)  
 of primates, comparative and experimental studies, 394  
 operations, terminology in, 424  
 Iritis, Fuchs' heterochromic, 441  
 glaucoma and, 304
- J**  
 Jackson, Edward, Lecture, XVI, 207; XVII, 927
- K**  
 Keratitis, disciform, 440  
 herpetic, electron microscopic study, 738  
 interstitial, nonsyphilitic, 990  
 syphilitic, glaucoma and, 1008  
 medicamentosa, 282  
 Kerato-acanthoma, of conjunctiva, 596  
 Keratoconjunctivitis, epidemic, convalescent serum in, 140  
 vaccine, fluorescent antibodies to study, 72  
 Keratoconus posticus circumscriptus, 119  
 in two siblings, 83  
 Keratography, 746  
 KERATOPLASTY: advances in, 300  
 Descemet's membrane doubling after, 298  
 grafts, clouding of, 300  
 healing of, sex chromatin to study, 91  
 hetero-, 140  
 metabolism of, 741  
 mushroom, 913  
 technique and new instrument for, 239  
 suturing of, 440  
 precipitin test in, 141  
 storage of donor eyes, 746  
 Krukenberg spindles, 880
- L**  
 Lacrimal apparatus, anatomy of, 594  
 canaliculi, streptothrix infections of, 36  
 diseases of, diagnosis and treatment, 596  
 duct, mycotic flora of, 619  
 nasolacrimal duct obstruction, end-to-side anastomosis for, 316  
 passages, obliterations of, 595  
 sac, tuberculosis of, 595  
 secretion, in rheumatism, 594  
 See also Tears  
 Latin America, ophthalmology in (1948), 320  
 LENS: acoustic structure of, 452  
 aldose and malic dehydrogenase of, effect X-rays on, 742  
 alpha-ketoglutaric acid in, 581  
 and vitreous: annual review, 308  
 capsule, formed elements in, 737  
 cell production and migration in, 581  
 changes, after low temperature, 451  
 cholesterol concentration in, 1013  
 codehydrase I in, 739  
 coloboma, gonioscopy in, 492  
 dislocated, angioid streaks and, 441  
 sclerocorneal transfixation for removal of, 468  
 DPN/DPN-H (free) in, 740  
 effect halogen acetates on, 65  
 electro-oculography and, 436  
 extraction, in deep corneal dystrophy, 677  
 fructose formation in, 431  
 glucose in, 581  
 hemorrhage into, 453  
 hexosamine content of, 581  
 opacities, reversible drug-induced, 1013  
 pentoses content of, 581  
 peptidase content of, 452  
 proteins, electrophoresis of, 132  
 immunization against, 132  
 pyruvic and lactic acid in, 742  
 regeneration of (rabbit), 919  
 residual capsule and cortex, secondary removal of, 463  
 RNA-amino acid system of, 431  
 content of, 431  
 secondary irradiation of, from X-rays, 1012  
 sublaxated, and luxated, 1012

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

**LENS** (*continued*)

- subluxated, and luxated (*continued*)
  - gonioscopy in, **492**
  - surgery of, in high myopia, 748
  - thiamine content of, 453
- Lenticonus, in renal disease, 601
- Liebrich, Richard, his Atlas, 605
- Light coagulation: See Photocoagulation
- LIGHT: ERG, after stimulation with, 743
  - intermittent, to evaluate visual development, 134
  - thresholds, foveal differential, retinal image and, **755/323**
- Limbo-scleral traphation, in glaucoma, **29**
- Limbus degeneration of Vogt, 138
- Linomag, in blepharitis, 594
- Looking, psychodynamics of, **515**
- Louis-Bar Syndrome, 314
- Lowe's syndrome, **207**
- Lymphadeno-glaucomatous syndrome, **101**
- Lymphogranulomatosis, eye changes in malignant, 600
- Lymphoma, eyelid swelling in malignant, **408**
- Lymphosarcoma, intraocular, **412**

**M**

- MACULA:** 583
  - degenerations, vitelliform, 458
  - diseases, color perception in, 293
- Malta fever, eye symptoms of, 437
- Malta, trachoma in, 320
- Mandibulofacial dysostosis, **521**
- Marchesani syndrome, 602, 1008, 1012
- Marcus Gunn syndrome, inverted, 591
- Marfan's syndrome, 1012
  - anterior chamber angle in, 142
- Marinesco-Sjögren syndrome, congenital cataract and, **207**
- Medications, fallen into oblivion, 1026
- Meetings, ophthalmic: See Ophthalmic meetings
- Megalocornea, corneal degeneration and, 299
- Meibomian glands, anomalies of, 1021
- Melanin, formation of, 292
  - ocular, 739
- Melanocytosis, oculodermal, 317
- Melanoma, malignant of orbit, 1022
  - of choroid, delayed metastasis in, 317
  - ultrasound to examine, 437
  - statistical study of, 1022
- Melanosia, progressive myopathy and, 1024
- Memphis Eye, Ear, Nose and Throat Society, **274**
- Meniere syndrome, ophthalmodynamometry in, 589
- Meningiomas, of optic nerve, 1017
- Metabolism, lipoprotein in cataract, 454
  - of graft, in keratoplasty, 741
- See also under various organs, etc.
- Methylene blue decolorization, to test cell viability, **923**
- Microphthalmos, 1011
- Microscopy, slitlamp, golden anniversary of, **5**
- Microsurgery, 745
- Migraine, cerebral aneurysm in, 589
  - headache: See under Headache
  - symptoms of, in cerebral anomalies, **993**
- Miotics, 432
  - Pyrphos, a new, 295
- Mongolism, congenital cataract and, **207**
  - eye manifestations of, 604
- Monocularly, in road traffic, 134
- Moorfields Medical School, 604
- Motility, orthoptics to improve, 137
- Mouth, eyelid closure on opening, 591
- Movements, electro-oculography to study, 748
  - pursuit, in amblyopic eyes, 439
- Mueller, Johannes, heterophoria of, **724**
- Multiple sclerosis, retinopathy of, 586
- Mumps, downward gaze palsy after, 590
- MUSCLES:** action d-tubocurarine on, 138
  - electromyography of: See Electromyography
  - extraocular, palsy of, in carcinomatous meningitis, **681**
  - operations, levator resection in ptosis, **200**
  - orbicularis, contraction power in, 1020
  - paresis, after cranial injury, 1017
  - surgery, catgut allergy in, 297
    - fornix depressor for, **259**

**MUSCLES** (*continued*)

- surgery (*continued*)
  - of oblique, 439
  - postoperative complications of, 138
  - traction suture deflector for, **414**
- Myasthenia gravis, ocular anticholinesterase agents in, **331**
- Mycotic flora, of lacrimal duct, **619**
- Mydriasis, due to snake bite, 1023
- Mydriatics, aqueous floaters after, 295
  - tropicamide, a new, 290
- MYOPIA:** high, anisometropia and, tonography in, 307
  - cataract surgery in, 451
  - in lymphadeno-glaucomatous syndrome, 101
  - lens surgery in, 748
  - ocular hypertension and, 1007
  - progressive sclerectatic, scleral support in, **853**
  - transient, after acetazolamide, 739
- Myxedema, pseudotumoral edema conjunctiva and, **901**

**N**

- Nasolacrimal anastomosis: See Dacryocystorhinostomy
- National Medical Foundation for Eye Care, **424, 995**
- Nephritis, ocular defects and deafness in, 600
- Nephropathy, with tapetoretinal degeneration, **625**
- Nerves, influence facial on ocular tension, 1008
- Neurofibromatosis, skull bone lesions in, 1018
- Nevus, of eyebrow, 587
  - of ota, 317
- New England Ophthalmological Society, **725, 990**
- New York Society for Clinical Ophthalmology, **273, 572**
- Newborn, ERG in, 312
- News Items, 144, 322, 460, 606, 749, 1027
- Nutrition, eye diseases and, **726**
- NYSTAGMUS:** in carcinomatous meningitis, **681**
  - optokinetic, after-, 298
  - review of 1954-1960, 298
  - to test visual acuity, 436
  - voluntary, 438

**O**

- OBITUARIES:** 125, 280, 422, 732
  - Anderson, Joseph Ringland, **281**
  - Bagley, Cecil Hopkins, **125**
  - Culler, Arthur M., **125**
  - Davenport, Robert Cecil, **422**
  - DeLong, Perce, **732**
  - Wagener, Henry P., **290**
- Ochronosis, hereditary, ocular findings in, 319
- Ocular extracts, autonomiclike properties of, **845/413**
- Ocular neurosis, **515**
- Ocular rigidity, after raised venous pressure, 442
  - anelastic behavior of human sclera and, **539**
  - coefficient of, **789/357**
  - effect variation in intraocular volume on, **789/357**
- OCULAR TENSION:** after cataract extraction, 580
  - after ocular insults, 1009
  - after raised venous pressure, 442
  - anterior chamber sutures to lower, 445
  - dynamics of, changes with tonography, **821/389**
  - changes with tonometry, **821/389**
  - effect epinephrine bitartrate on, 1010
  - effect photocoagulation ciliary body on, 156
  - hemodynamic factors and, 445
  - in high myopia, 1007
  - in pigmentary glaucoma, **880**
  - in retinal detachment, as a prognostic sign, 1015
  - influence facial nerve on, 1008
  - studies on, 306
  - temporary elevation in, effect on hyphema, **58**
  - Tosmilen eyedrops to reduce, 308
  - urea to reduce, 303
    - See also Urea
  - variations in blood circulation and, 445
  - vascular pressure and, 307
  - venous pressure and, 444
- Oculodermal melanocytosis, 317
- Oculodermatologic syndrome, 137
- Onchocercosis, 599
  - eye manifestations of, 598

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- OPERATIONS:** Barraquer, in subluxated lens, 1012  
 eyelid halving, 316  
 for glioma of optic nerve, 312  
 for obstruction nasolacrimal duct, 316  
 for ptosis, 316  
   levator resection for, 200  
 for removal dislocated lens, 468  
 for removal residual lens capsule and cortex, 463  
 iridectomy, in glaucoma, 1008  
 orbitotomy, in intraorbital nerve tumor, 315  
 Ophthalmia, sympathetic: See Sympathetic ophthalmia  
 Ophthalmic artery: See Blood vessels  
 Ophthalmic lectures, XVI Jackson, 207  
   XVII Jackson, 927  
 Mark J. Schoenberg, XIV, 145  
 Ophthalmic meetings, Academy, 1961, 729  
   first in Georgian Republic, 1025  
   International Council, 421  
   Mid-Year, 1961, 415  
   1961 Oxford Ophthalmological Congress, 418  
   sixth in Uzbekistan, 1026  
 Ophthalmic practice, psychologic aspects of, 515, 696  
 Ophthalmic societies, National Medical Foundation for  
   Eye Care, 424, 995  
   See also Society Proceedings  
 Ophthalmodynamometer, calibration of, 1009  
   electronic, 570  
 Ophthalmodynamometry, 85, 1010  
   collateral circulation to eye and, 381  
   in diagnosis, 1008  
   in internal carotid thrombosis, 862  
   in Meniere's syndrome, 589  
   in retinal artery occlusion, 312  
 Ophthalmologist, and patient relationship, 696  
   traffic laws and, 604  
**OPHTHALMOLOGY:** general medicine and, 598  
   in Frankfurt am Main, 603  
   in Germany (1958), 320  
   in Russian (1958), 1025  
   Latin-American (1958), 320  
   rheuma test in, 136  
   Scandinavian (1958), 604  
   South American, 95, 1002  
   study of, 605  
 Ophthalmoplegia, cavernous sinus inflammation and, 438  
   external, visual fields in, 587  
 Ophthalmoscopy animal, 296  
   direct, dental mirror in, 295  
   Richard Liebreich and Atlas of, 605  
 Optic canal, decompression of, 577  
 Optic chiasm, ganglioneuroma of, 317  
 Optic disc, blood vessels near, 289  
   hyaline excrecences on, 1017  
   myelinated nerve fibers around, 456  
**OPTIC NERVE:** adenocarcinoma of, 596  
   after cranial trauma, 585  
   and retina: annual review, 311  
**ATROPHY:** dyschromatopsia and, 432  
   in carcinomatous meningitis, 681  
   in pernicious anemia, 1018  
   in suprasellar osteochondroma, 590  
   blood vessels of, 289  
   degeneration, electron microscope to study, 586  
   drusen of, in intracranial tumor, 585  
   foreign bodies of, localization and extraction, 1022  
   ganglioneuroma of, 317  
   glioma of, operation for, 312  
   head, melanotic tumors of, 313  
   meningiomas of, 1017  
   sectioning of, 283  
   size and growth of, 586  
 Optic neuritis, in iron deficiency anemia, 276  
 Optics, and visual physiology: annual review, 432  
 Optokinetic reaction, 739  
**ORBIT:** angioreticuloma of, 593  
   cellulitis of, 592  
   collateral circulation of, 314  
   endothelioma of, 317  
   epithelial tumor of, 591  
   epithelioma of, 592  
**ORBIT (continued)**  
   floor of, traumatic diplopia and, 592  
   granuloma of, 593  
   hemangioma of, 596  
   in neurofibromatosis, 1018  
   lesions of, diagnosis of, 994  
   melanoma of, 1022  
   osteoma of, 315  
   palpebral proliferation spreading to, 1021  
   reconstruction, polyethylene in, 672  
   sarcoma of, 597  
 Orbitotomy, in intra-orbital nerve tumor, 315  
 Orthoptics, to improve ocular motility, 137  
 Osteochondroma, optic nerve atrophy in suprasellar, 590  
 Osteoma, of orbit, 315  
 Oximes, cholinesterase neutralization by, 841/409  
 Oxycephaly, congenital cataract and, 207
- P**
- Pallidum stereotactic lesions of, eye signs in, 313  
 Papilledema, ERG in, 435  
   in carcinomatous meningitis, 681  
   in Sydenham's chorea, 1017  
 Paraproteinemia, corneal dystrophy and, 895  
 Parasites, infection of conjunctiva, 139  
 Parinaud syndrome, semiologic evaluation of, 296  
 Paris, cataracts in sight-saving classes of, 448  
 Parkinsonism, visual motor performance in, 1018  
 Pars ciliaris retinae, tumors of, 659  
 Pentoses content of lens, 581  
 Peptidase, action in lens, effect halogen acetates on, 65  
   content of lens, in cataract, 452  
 Periarthritis nodosa, Sjögren's syndrome and, 601  
 Perimetry, fusional, 744  
   See also Visual fields  
 Pfeiffer bacillus, electron microscope to study, 738  
 PH203 (Panthesin-Hydrargin), in retinal vascular disease,  
   133  
 Pheniprazine hydrochloride, toxic amblyopia due to, 741  
**PHOTOCOAGULATION:** chorioretinal lesions produced  
   by, 487  
   clinical experience with, 451  
   corepraxia by, 137  
   effect on trabecular meshwork, 163  
   in cataract, 454  
   in Eales' disease, 1015  
   in eye diseases, 437  
   in retinal detachment, 474  
   in retinal lesions, 311  
   influence on aqueous dynamics, 163  
   of anterior chamber angle, 163  
   of ciliary body, 156  
   of iris, ciliary body and retina, 479  
   receptor orientation and, 767/335  
 Photocoagulator, experiences with a new, 479  
**PHOTOGRAPHY,** fundus, in retinal disease, 457  
   in eye surgery, 747  
   gonio-: See Goniophotography  
   stereo-: See Stereophotography  
   to record chorioretinitis over 18 years, 343  
 Pituitary, adenomas of, semiology of, 588  
 Plasmocytoma, paraproteinemia in, 895  
 Plastic surgery, in aphakia, 300  
   in scleromalacia perforans, 693  
   of eyelids, 1022  
 Pleoptics, in amblyopia, 745  
 Polyethylene, in orbital floor reconstruction, 672  
   ocular reaction to, 61  
 Precipitin test, in keratoplasty, 141  
 Prednisolone, in aqueous, 77  
 Pregnancy, fundus changes in, 455  
 Primates, anterior chamber angle in, 529  
   effect restricted visual space on eyes of, 799/367  
   iris of, 384  
 Privine, in retrobulbar anesthesia, 137  
 Proptosis, asymmetric, 10  
 Protopam, effect on rabbit pupil, 565  
 Pseudoglioma, due to larva, 310  
 Pseudomonas infection, death premature infant due to,  
   299

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Pseudoxanthoma elasticum**, 1014  
 angioid streaks and, 1014  
 calcium in, 740  
 mottled fundus in, 311  
**Psychologic aspects**, of ophthalmic practice, 515, 696  
**PTOSIS**: 725  
 after cranial injuries, 1017  
 due to snake bite, 1023  
 in carcinomatous meningitis, 681  
 levator resection in, 200, 316  
**Pterygium**, beta radiation in, 139  
**Pterygoid**, cholesteatoma of, 315  
**Pulseless disease**, 725  
**PUPIL**: after denervation sympathetic ganglion, 1018  
 block, in aphakia, 270  
 effect echthiophate and ambenonium on rabbit, 526  
 effect protopam on rabbit, 565  
 in carcinomatous meningitis, 681  
 in melanosis with myopathy, 1024  
 membrane, after cataract extraction, removal of, 463  
 movements, in adaptation, 134  
 photocoagulation to create, 137  
 size, accommodation, vergence and, 726/330  
 tonic, Adie's syndrome and, 590  
**Pyrogen**, in corneal ulcers, 139

**R**

- Radiation**, beta, 738  
 secondary of lens, from X-rays, 1012  
 therapy, beta in pterygium, 139  
 X-ray: See X-rays  
**Radioactive isotopes**, SR<sup>90</sup>, cataract formation after, 573  
 to study hyphema, 292  
**Radiology**, to examine cavernous sinus, 315  
**Reading**, disability, in children, 572  
**Receptor orientation**, retinal pathology and, 767/335  
**Recklinghausen disease**, 1018  
**REFRACTION**: anterior chamber lens in cataract, 308  
 changes, after Diamox, 295  
 after Fonurit, 132  
 in strabismus, 138  
 media of eye, enzymology of, 65  
**Registry of Ophthalmic Pathology**, 605  
 Past, Present, Future, 927  
**Renal**, biopsy, ocular vascular diseases and, 747  
 diseases, ocular defects and deafness in, 600  
**RETINA**: adenocarcinoma of, 596  
 and optic nerve: annual review, 311  
 artery, occlusion of, glaucoma and, 308  
 ophthalmodynamometry in, 312  
 pressure, by ophthalmodynamometry, 85  
 effect carbon dioxide on, 430  
 in diagnosis internal carotid thrombosis, 862  
 blood content of, effect on ERG, 742  
 blood vessels of, developing, 581  
 in diabetes, 1017  
 capillaries of, basal membrane of, 1014  
 circulation, PH203 and ACTH in, 133  
 cones, electron microscope to study, 584  
 cysts of, 582  
 degeneration of, ERG in central, 1016  
 hearing loss in pigmentary, 457  
 tapeto-, juvenile familial nephropathy with, 625  
**DETACHMENT**: 457  
 electro-oculography during treatment for, 1014  
 glaucoma and, 1010  
 hospital management of, 548  
 hyaluronic acid as vitreous substitute in, 457  
 idiopathic, eye abnormalities and, 582  
 ocular tension in, prognostic meaning, 1015  
 operations, gelatin film in, 561  
 globe encircling, 1016  
 photocoagulation in, 474  
 prophylaxis of, 583, 585  
 receptor orientation in, 767/335  
 scleral buckling, by silver ball in, 1016  
 silicone rod for, 295  
**SURGERY**: 458  
 electronic instrument for, 311  
 failure in, 274

- RETINA** (continued)  
**DETACHMENT** (continued)  
**SURGERY** (continued)  
 instrument to insert encircling tubes, 260  
 urea in, 310, 443  
 vitreous in, 374  
 vitreous detachment and, 459  
 diseases, fundus photography in, 457  
 dysorique nodules of, 309  
 exudates, resorption of, 456  
 histochemistry of, 430  
 image, foveal differential light thresholds and, 755/323  
 in hypertension, 746  
 in Schilder disease, 312  
 inner limiting membrane of, 1016  
 larva of, pseudoglioma due to, 310  
 lesions of, photocoagulation in, 311  
 lipemia of, in diabetes, 1013, 1015  
 metabolism, effect deproteinized blood on, 310  
 microaneurysms of, in diabetes, 459  
 nerve fibers of, myelinated, 587  
 neurons of, in tissue culture, 834/402  
 new vessel formation in, factors influencing, 637  
 pathology, receptor orientation in, 767/335  
 periphlebitis of, 1015  
 vascular lesions of, 584  
 vascular patterns of, 311, 312  
 Retinal correspondence, after-image test for, 713  
**Retinitis**, pigmentosa, Behcet's disease and pseudo-, 583  
 deafness and, 457, 575  
 electroencephalogram in, 455  
 etiology and treatment of, 583  
 Fuchs' heterochromic iritis and, 441  
 proliferans, 1015  
 factors influencing, 637  
**Retinoblastoma**, in adult, 405  
 in children of survivors, 317  
 in twins, 582  
 regression and progression, 717  
 rosettes of neuro-epitheliomatous, 497  
 statistical study of, 1022  
 treatment of, 573  
**Retinopathy**, after chloroquine, 584  
 after hemorrhage, 1013  
 central serous, 126  
 diabetic: See Diabetic retinopathy  
 dysorique, 309  
 of multiple sclerosis, 586  
**Retinoscopic reflex**, 438  
**Retrobulbar neuritis**, in pernicious anemia, 1018  
**Retroental fibroplasia**, 458  
**Rheology**, of human sclera, 539  
**Rheuma test**, in uveitis, 136, 301  
**Rheumatism**, lacrimal secretion in, 594  
**Rheumatoid arthritis**: See under Arthritis  
**Rigidity of eye**: See Ocular rigidity  
**Road traffic**: See Traffic  
**Rothmund's syndrome**, 207  
**Rubella**, congenital anomalies and maternal, 602  
**Russia**, ophthalmology in (1958), 1025  
**Rust-ring remover**, 122

**S**

- Sarcoid**, Boeck's, of fundus, 633  
 of fundus, 456  
**Sarcoidosis**, 633  
**Sarcoma**, of orbit, 597  
**Scandinavia**, ophthalmology in (1958), 604  
**Schafer's syndrome**, 207  
**Schilder disease**, retina in, 312  
**Schoenberg**, Mark J., XIV lecture, 145  
**SCLERAL**: anelastic behavior of, 539  
 diathermocoagulation of, in glaucoma, 305  
 foreign body on, localization and extraction, 1022  
 posterior, scleral support of, clinical results, 853  
 protuberance of, 140  
 rheology of human, 539  
**Scleral buckling**, silicone rod for, 295  
 See also under Retina, detachment  
**Scleral rigidity**: See Ocular rigidity

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Sclerocorneal transfixation, for removing dislocated lens, **468**
- Sclerokeratitis, erythema nodosum and, **269**
- Scleromalacia perforans, fascia lata graft in, **693**
- Sclerosis, tuberosus, 296
- Scopolamine, cycloplegic effect of, 740
- eyedrops, 741
- in cycloplegia, 132
- Scotomas, after Diabinese, 741
- as symptom pernicious anemia, 600
- Sex chromatin, to study healing corneal grafts, **91**
- Sickle-cell disease, conjunctival signs in, 748
- Siemen's syndrome, congenital cataract and, **207**
- Sinus, cavernous, radiologic examination of, 315
- Sjögren's syndrome, congenital cataract and, **207**
- periarteritis nodosa and, 601
- Skin, diseases of, eye manifestations in, 137
- Slitlamp microscopy, golden anniversary of, **5**
- Solcoseryl, protection in X-ray therapy, 432, 434
- Sound, effect on vision, 744
- South America, ophthalmology in, **95, 320, 1062**
- SPECTACLES: acceptance of, **696**
- anterior chamber lens: See Implants. See also Intra-ocular lens
- contact lens: See Contact lens
- low-vision aids, 435
- polaroid, partial occlusion with, 742
- Spider lick ophthalmodermatozosis, 1021
- Spiramycin, in toxoplasmosis, 135
- Staphylococcus, identification of, plasma-mannitol-bromocresol purple agar for, **783/351**
- infections, of conjunctiva, 289
- sensitivity to antibiotics, 737
- Stereography, in binocular vision, 743
- Stereophotography, of anterior chamber angle, 746
- of anterior segment, 746
- Stereopsis, localization in brain, 439
- Stereoscopic, luster, 294
- test charts, 133
- Stereotactic lesions, 313
- Steiner's disease, 296, 599
- Steroids, in rheumatoid arthritis, cataracts and, **831/399**
- Stilling-Tuerk-Duane syndrome, 439
- STRABISMUS: **726**
- action d-tubocurarine on extraocular muscles in, 138
- amblyopia and, film visuscope to treat, 138
- A and V syndrome in, **172**
- present status of, **396**
- concomitant, sensory-motor disorders in, 297
- fixation anomalies with, **19**
- instrument to treat, 433
- occluder to treat, 433
- refraction in, 138
- Stilling-Tuerk-Duane syndrome, 439
- suppression in, inhalation cerium salts and, 298
- surgical indications in, **172**
- Streptothrix canaliculitis, **34**
- Subhyaloid hemorrhage, **257**
- SURGERY: advances in corneal, 300
- aid in minor, **424**
- arm rest for, **568**
- cardiac, neuro-ophthalmic complications of, 313
- catgut sutures in corneal, 140
- complications in, due to antiseptic, **261**
- congenital cataract, **361**
- linear extraction, **355**
- needling, **347**
- for glioma of optic nerve, 312
- in eyelid malignancies, **1**
- micro-, 745
- muscle, catgut allergy in, 297
- postoperative complications in, 138
- See also under Muscles
- photographic technique for, 747
- plastic: See Plastic surgery
- prevention sepsis in, 136
- strabismus: See under Strabismus
- unilateral almond eye, **122**
- use plastic materials in, **61**
- Supraorbital torus, 315
- Sutures, catgut in corneal surgery, 140
- traction, deflector for, **414**
- Sympathetic ophthalmia, 142
- SYNDROMES: A and V, **172**
- present status of, **396**
- aortic arch, 599
- Ascher, 595
- Bonnevie-Ullrich, **207**
- Claude Bernhard, heterochromia and, 141
- Franceschetti, **521**
- Fuchs, heterochromia and, 141
- Groenblad-Strandberg, 1014
- Louis-Bar, 314
- Lowe's, **207**
- lymphadenoglucomatous, **101**
- Marchesani, 602, 1008, 1012
- Marfan, 1012
- anterior chamber angle in, 142
- Meniere, 589
- oculodermatologic, 137
- Parinaud, evaluation of, 296
- previously unrecognized, keratoconus posticus, etc., **53**
- Rothmund, **207**
- Schafer, **207**
- Siemen, congenital cataract and, **207**
- Sjögren, periarteritis nodosa and, 601
- Stilling-Tuerk-Duane, 439
- Usher, 457
- Wernicke, **990**
- with congenital cataracts, **207**
- T**
- Tay-Sachs disease, **410**
- Tears, excretion of, physiology of, 432
- lack of, in Cockayne's disease, **116**
- osmotic pressure of, 316
- Teflon, ocular reaction to, **61**
- Teleangiectatic ataxia, 314
- Temporal arteritis: See Arteritis
- Terramycin ointment, **269**
- Tests, complement fixation in trachoma, 300
- for corneal transparency, 301
- rheuma, in uveitis, 301
- visual, based on optokinetic nystagmus, 436
- See also Visual tests
- Tetracycline, in trachoma, 436
- Tetran, in trachoma, 747
- Thalamus, stereotactic lesions of, eye signs in, 313
- Tissues, desoxyribonucleic acid in, 292
- monoamine oxidase in ocular, 136
- Tokyo Medical College, color vision test, evaluation of, **650**
- TONOGRAPHY: 305
- anelastic behavior sclera and, **539**
- changes in, ocular tension dynamics with, **821/389**
- during water drinking test, 442
- electro-, to study effects alpha chymotrypsin, 451
- errors in, 305
- experimental, 305
- in glaucoma, diagnosis simple, 306, 445
- management, 306
- in group health population, 1009
- principle of, 305
- simplified, 442
- technique of, 305
- to study high myopic anisometropia, 307
- with different weights, 143
- Tonometers, calibration of, 143
- TONOMETRY: applanation, 308
- accommodation and, 143
- vs. indentation, 303
- changes in ocular tension dynamics with, **821/389**
- in group health population, 1009
- pressure-sensitive crystal oscillator for, **984**
- Tonosphygmography, in chronic glaucoma, 445
- Tosmilen eyedrops, 443
- to reduce ocular tension, 308
- Toxocara canis, blindness due to, 1024
- Toxoplasma, in aqueous, 738
- uveitis due to, 302

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments

- Toxoplasmosis, congenital, 320  
 Daraprim in experimental, **402**  
 spiramycin in, 135  
 treatment of, 744
- Trabecula, corneoscleral, atrophy of, 141
- Trabecular meshwork, influence photocoagulation on, **163**
- Trabeculotomy, 294
- TRACHOMA: complement fixation test in, 300  
 fluorescent antibodies to study, **72**  
 in Malta, fight against, 30  
 inclusion bodies of, tetracycline for, 436  
 Tetran in, 747  
 vaccination in, 746
- Traffic, dark adaptation, illumination and glare in road, 133  
 laws, ophthalmologists and, 604  
 visual acuity and monocularly in road, 134
- Translucency, action on fusion frequency, 131
- Transaminase, action on corneal epithelium, 293
- Trephination, gonioscopy and function test after Elliot's, 1009  
 iridencleisis and, 443  
 limboscleral, **29**
- Trichromates, spectral hue loci of, **166**
- Tropicamide, a new cycloplegic mydriatic, 290  
 in cycloplegia, 741
- Tuberculosis, of lacrimal sac, 595  
 thioethyl chaulmoograte in ocular, 290
- TUMORS: cells, behavior of, in rat eyes, **816/384**  
 intracranial, evaluation Parinaud syndrome in, 296  
 optic nerve drusen and, 585  
 intraocular lymphosarcoma, **412**  
 intraorbital nerve orbitotomy in, 315  
 of anterior segment, 1022  
 of brain, early diagnosis, 1019  
 of choroid, **107**, 317, 437  
 of conjunctiva, **266**, 299, **412**, 596  
 of eyelid, **408**, 594, 1021  
 repair after, 595  
 of optic chiasm, 317  
 of optic nerve, 317, 596, 1017  
 head, melanotic, 313  
 of orbit, 315, 317, 591, 592, 593, 596, 597, 1022  
 of pars ciliaris retinae, **659**  
 of pituitary, 588  
 of pterygoid, 315  
 of retina, 596  
 rosettes of neuro-epitheliomatous retinoblastoma, **497**  
 suprasellar, 590
- Twins, retinoblastoma in, 582
- U**
- Ulcers: See under various organs, etc.
- Ultrasonography, 135
- Ultrasound, biomicroscopic, in choroid melanoma, 437  
 effect on blindspot, 1023
- UREA: aqueous and blood urea after, 431  
 in glaucoma, 443, 581  
 acute angle-closure, 304, **323**, **872**, **875**, **992**  
 in retinal detachment surgery, 310  
 intravenous, in ophthalmology, 443  
 to reduce ocular tension, 303
- Urine, S-OA in, in senile cataract, 309
- Urogenital disease, uveitis and, 302
- Usher's syndrome, 457
- Uvea: annual review, 142  
 biochemophotometry of, 136
- UVEITIS: antistreptodornase levels in, 441  
 endogenous, **269**  
 giardiasis and, 440  
 immunologic, effect anergex on, **340**  
 rheuma test in, 136, 301  
 survey, correction in paper on, **282**  
 toxoplasmic, serologic and clinical aspects, 302  
 treatment of, in children, 441  
 urogenital disease and, 302
- Uzbekistan, sixth ophthalmic meeting in, 1026
- V**
- Vaccination, in trachoma, 746
- Varicella, eyelid swelling in, **408**
- Vascular disease, renal biopsy and, 747
- Vergence, accommodation and, pupil size changes and, **762/330**
- Virus, Behçet, isolation from hypopyon, 131  
 etiology in rodent ulcer, 140  
 fluorescent antibodies to study, **72**  
 infections, treatment of, 433, 748
- VISION: action tiotic acid on, 131  
 after congenital cataract surgery, **368**  
 binocular, stereograms in, 743  
 development of, in infants, 134  
 effect sound on, 744  
 in carcinomatous meningitis, **681**  
 in empty visual field, 135  
 near, in school children, 732
- Visual acuity, in road traffic, 134  
 optokinetic nystagmus to test, 436
- Visual aids, 435
- Visual apparatus, Cajal and anatomy of, 605
- Visual disturbances, after cranial trauma, 588
- Visual fatigue, in young persons, 435
- VISUAL FIELDS: in external ophthalmoplegia, 587  
 in pernicious anemia, 600  
 in temporal lobe lesions, 590  
 vision in an empty, 135
- Visual function, development of, in infants, 134  
 effect acoustic stimulation on, 744
- Visual hallucinations, hemianopia and, **274**
- Visual hygiene, 320
- Visual motor performance, in Parkinsonism, 1018
- Visual physiology, and optics: annual review, 432
- Visual screening, in school children, **278**, **283**  
 comparison two tests, **511**
- Visual space, effect restricted on primate eye, **799/367**
- Visual tests, comparison two for school screening, **511**  
 near-vision, for preschool child, **712**  
 projector chart for, **968**  
 stereoscopic charts for, 133
- Visuscope, to treat amblyopia, 134
- Vitamins: A deficiency, eye disease and, **726**  
 hemeralopia and, 294  
 B, effect on vascular reflexes in glaucoma, 1008
- VITREOUS: and lens: annual review, 308  
 detachment, retinal detachment and, 459  
 hyaluronic acid as substitute for, 457  
 in alloxan diabetes, 1014  
 in retinal detachment surgery, **374**  
 influence alpha chymotrypsin on, 458  
 lyophilized, structural changes in, 435  
 neurominic acid in, 459  
 prolapsed, anatomy and embryology of, 456  
 viscosity studies of aspirated human, **374**
- W**
- Wagner, Henry P., **280**
- Weeks bacillus, electron microscope to study, 738
- Wegener's granulomatosis, 591
- Wernicke's syndrome, **990**
- X**
- X-RAYS: effect on lens aldose and malic dehydrogenase, 742  
 eye abnormalities in mice due to, 598  
 of ciliary body, ocular hypertension and, 434  
 secondary irradiation lens from, 1012  
 therapy, 437  
 in eyelid cancer, 1021  
 in eyelid malignancies, **1**  
 in lymphadenoglucomatous syndrome, **101**  
 solcoseryl protection during, 432, 434
- Y**
- Yale University Postgraduate Series, **270**, **573**
- Z**
- ZONULOLYSIS: 446, 451, 452, 453, 580  
 anatomy of, 456  
 effect on eye, 451  
 embryology of, 456  
 experience with, in 812 cataract operations, **195**  
 histologic examination of eye after, 452

# INDEX

## Authors and Titles of

## Original Articles and Notes, Cases, Instruments

### A

- ABRAHAM, Samuel V.: Accommodation in the amblyopic eye, 197  
ACKERMAN, Albert L.: The action of urea in acute glaucoma, 875  
AGARWAL, Mohan Lal: Dacryocystography in chronic dacryocystitis, 245  
AIZAWA, Futaba: See GALIN, Miles A.  
ALLEN, Donald G.: Accommodation after the age of 40 years, 702  
ALLEN, Henry F.: A near-vision test for preschool children, 712  
ALPERN, Mathew, MASON, Gordon L., and JARDINICO, Robert E.: Vergence and accommodation: V. Pupil size changes associated with changes in accommodative vergence, 762/330  
AMDUR, Joseph: A lid fixation forceps, 407  
ARMALY, Mansour F.: Regulatory changes in the dynamics of intraocular pressure: Evoked by tonometry and tonography, 821/389. See NEWELL, Darrell E.  
ASSAAD, Fakhry: See GRAYSTON, J. Thomas

### B

- BALDUCCI, Diego: See VOZZA, Riccardo  
BALLEN, Peter H., and BUCKLEY, Eugene T.: Removal of a large retrobulbar foreign body, 715  
BALLINTINE, Elmer J.: See WAITZMAN, Morton B.  
BASU, P. K., SIBAY, T. M., and CHANG, S. C.: The behavior of tumor cells from the Walder carcinosarcoma 256 in the ocular tissues of rats, 816/384  
BAUSOR, Sydney C.: See ELLIS, Philip P.  
BEDELL, Arthur J.: Progressive bilateral chorioretinitis: Kodachrome record for 18 years, 343  
BINDER, Hertha F., BINDER, Rudolf F., WELLS, August H., and KATZ, Robert L.: Experiments on lens regeneration in rabbits: I. Lens regrowth after extracapsular extraction with keyhole iridectomy, 919  
BINDER, Rudolf F.: See BINDER, Hertha F.  
BINKHORST, Richard F.: See FINK, Austin I.  
BORRAS, Antonio: Inclusion of absorbable gelatin film between scleral lamellae: In treatment of retinal detachment, 561  
BRAUDO, J. L.: See SENIOR, B.  
BROWNING, Carroll W.: See SMITH, Glendon G.  
BROWNING, Carroll W., and WALKER, Robert V.: Polyethylene in posttraumatic orbital floor reconstruction, 672  
BUCKLEY, Eugene T.: See BALLEN, Peter H.  
BURNS, Robert P., and FLOREY, Mary Jo: A plasmamannitol-brom cresal purple agar for rapid identification of staphylococci, 783/351  
BYRON, Herve M.: Differential diagnosis of the shortened angle, 492

### C

- CAMP, Richard N.: See GIRARD, Louis J.  
CARBAJAL, Ulysses M.: Combined internal and external approach in levator resection, 200; A safe approach in surgery of congenital cataracts, 361  
CARTER, George Z.: See TAFFET, Simeon  
CAVKA, V.: Pigmentary glaucoma, 880  
CHANDLER, Paul A., and MAUMENEE, A. Edward: A major cause of hypotony, 609  
CHANG, S. C.: See BASU, P. K.  
CHAPIN, H. Beecher, DOCTOR, Daniel, and WONG, Sam: Peculiar deficiency of antibody production: In a patient with keratitis receiving herpes-simplex virus vaccine, 569  
CHARAMIS, John, and TOPALIS, C.: Experience in 812 cataract operations with enzymatic zonulolysis, 195  
CHEN, Chen-wu: See GRAYSTON, J. Thomas  
CIBIS, Paul: See FANKHAUSER, F.

- COLYEAR, Bayard H., Jr., and PISCHEL, Dohrmann K.: Photocoagulation as an adjunct in retinal detachment surgery, 474  
CORDES, Frederick C.: Linear extraction in congenital cataract surgery, 355  
COYLE, J. Terrence, WEINER, Alvin, FRANK, Paul, and LEONARD, Arthur: The management of glaucoma in the indigent glaucoma patient: With echthiophate iodide, 867  
CRASILNECK, Harold B.: See SMITH, Glendon G.  
CURTIN, Brian J.: Scleral support of the posterior sclera: Part II. Clinical results, 853

### D

- DAVIS, Courtland H., Jr.: See WEAVER, Richard G.  
DELANEY, William V., Jr.: See KISSEN, Abbott T.  
DOCTOR, Daniel: See CHAPIN, H. Beecher  
DRYDEN, J. Spencer, PERRAUT, L. Edward, and SEWARD, William H.: Sclerocorneal transfixation method: For the removal of posteriorly dislocated lenses, 468  
DUNLAP, Edward A.: Present status of the A and V syndromes, 396

### E

- EDWARDS, G. Keith, and LOCKE, John C.: Viscosity studies of aspirated human vitreous: With special reference to its use in retinal detachment surgery, 374  
ELLIS, Philip P., BAUSOR, Sydney C., and FULMER, John M.: Streptothrix canaliculitis, 36  
ENOCH, J.: See FANKHAUSER, F.  
ERBAKAN, Selahattin: Intraocular lymphosarcoma: Report of a case showing extraocular extension along the perforating scleral canals, 412  
ESPIRITU, Romeo B.: See OCAMPO, Geminiano de  
ESPIRITU, Romeo B., KARA, Gerald B., and TABOWITZ, David: Studies on the healing of corneal grafts: I. The fate of the endothelial cells of the graft as determined by sex chromatin studies, 91  
EVERETT, William G., and HOOVLER, M. R.: Changing trends in the hospital management of retinal detachment, 548

### F

- FALLS, Harold F.: See HANEY, William P.  
FANKHAUSER, F., ENOCH, J., and CIBIS, Paul: Receptor orientation in retinal pathology: A first study, 767/335  
FINK, Austin I., BINKHORST, Richard D., and FUNAHASHI, Tomoya: Intravenous urea in angle-closure glaucoma, 872  
FLOCKS, Milton: See ZWENG, H. Christian  
FLOREY, Mary Jo: See BURNS, Robert P.  
FOJAS, Marcos R.: See OCAMPO, Geminiano de  
FOX, Sidney A.: Use and misuse of irradiation in lid malignancies, 1  
FRANÇOIS, Jules: Syndromes with congenital cataract: XVI Jackson Memorial Lecture, 207  
FRANÇOIS, Jules, and RABAEY, M.: Corneal dystrophy and paraproteinemia, 895  
FRANK, Paul: See COYLE, J. Terrence  
FRANKEL, Jerome: Ophthalmodynamometry: A pilot study, 85  
FRIEDMANN, A. I.: See SENIOR, B.  
FULMER, John M.: See ELLIS, Philip P.  
FUNAHASHI, Tomoya: See FINK, Austin I.

### G

- GALIN, Miles A., AIZAWA, Futaba, and McLEAN, John M.: The water provocative test in glaucomatous patients, 15

GENTILE, James F., and JOHNSTON, Philip W.: A comparison of two school vision screening tests, 511  
 GILES, Conrad L., and WESTERBERG, Martha R.: Clinical evaluation of local ocular anticholinesterase agents in myasthenia gravis, 331  
 GILSON, M.: See WEEKERS, R.  
 GIRARD, Louis J.: See Sampson, Whitney G.  
 GIRARD, Louis J., CAMP, Richard N., LAMB, Vernon R., RICHARDSON, Charles B., and SOPER, Joseph W.: Iris corneal contact lens, 264  
 GIRARD, Louis J., SOPER, Joseph W., and CAMP, Richard N.: The contact lens problem, 706  
 GOLDSTROHM, Robert: See TERNER, Irwin S.  
 GONZALES, Cesar A.: See PINE, Leo  
 GOULD, Herbert L., and KAUFMAN, Herbert E.: Boeck's sarcoid of the ocular fundus: Historical review and report of a case, 633  
 GRAYSTON, J. Thomas, WOOLRIDGE, Robert L., CHEN, Chen-wu, ASSAAD, Fakhry A., MAFFEI, Sigismondo, YEN, Chun-hui, and YANG, Chung-yan: Bacterial conjunctivitis: Caused by an eye ointment base used as a placebo in therapeutic trials, 251  
 GROSSMANN, Erwin E.: Cross-action cilia forceps, 571  
 GROVER, A. O.: Infantile amaurotic family idiocy: In an Indian child, 410  
 GUERRY, DuPont, III: See HIATT, Roger

## H

HADEYAMA, Akira: See NAKAJIMA, Akira  
 HAMID, S.: See MEHRA, K. S.  
 HAMILTON, Henry E.: See SCHULTZ, Richard O.  
 HANEY, William P., and FALLS, Harold F.: The occurrence of congenital keratoconus posticus circumscriptus: In two siblings presenting a previously unrecognized syndrome, 53  
 HARDESTY, Hiram H.: Further refinement of the after-image test, 713  
 HEIN, Paul A., Jr.: Unilateral paralysis of accommodation, 711  
 HENKIND, Paul, and WISE, George N.: Descemet's wrinkles in diabetes, 371  
 HIATT, Roger, KENDRICK, Dan L., and GUERRY, DuPont, III: Retinoblastoma: Regression and progression, 717  
 HOOVLER, M. R.: See EVERETT, William G.  
 HORN, Charles: See NEWELL, Darrell E.  
 HUANG, Tao: See WAITZMAN, Morton B.  
 HUGHES, Wendell L.: Chalazion retractor, 260  
 HUNTER, W. S., and McCULLOCH, Clement: The neutralization of cholinesterase inhibition by various oximes and by atropine, 841/409

## J

JAMPEL, Robert S.: See KATZ, Joseph L.  
 JARDINICO, Robert E.: See ALPERN, Mathew  
 JOHNSTON, Philip W.: See GENTILE, James F.  
 JONES, Ira S.: The treatment of congenital cataracts by needling, 347

## K

KANKI, Kazuo: See NAKAJIMA, Akira  
 KAPLAN, Alex: See MILDNER, Benjamin  
 KAPLAN, Alex, and MILDNER, Benjamin: Psychologic aspects of ophthalmologic practice: Part I. Psychodynamics of looking; ocular neurosis, 515  
 KARA, Gerald B.: See ESPIRITU, Romeo B.  
 KARLIN, David B., and WISE, George N.: Keratoconus posticus, 119  
 KATZ, Joseph L., VALSAMIS, Marius P., and JAMPEL, Robert S.: Ocular signs in diffuse carcinomatous meningitis, 681  
 KATZ, Robert L.: See BINDER, Hertha F.  
 KAUFMAN, Herbert E.: The penetration of Daraprim (pyrimethamine) into the monkey eye, 402. See GOULD, Herbert L.  
 KEATES, RICHARD H., MARTINEZ, Miguel, and PATON, R. Townley: A modified technique for mushroom corneal grafts with a new instrument, 239  
 KEENEY, Arthur H.: See TOWNES, C. Dwight  
 KELLY, Stephen: An electronic ophthalmodynamometer, 570

KENDRICK, Dan L.: See HIATT, Roger  
 KIRBY, Thomas J., Jr., and SORENSON, James M.: Swelling of the eyelids: In malignant lymphoma and varicella: Report of a case, 408  
 KISSEN, Abbott T., DELANEY, William V., Jr., and WACHTEL, Joel: The development of chorioretinal lesions produced by photocoagulation, 487  
 KONYAMA, Kazuichi: See NAKAJIMA, Akira  
 KORNZWEIG, Abraham L., and THEODORE, Frederick H.: Secondary removal of residual lens capsule and cortex: After cataract extraction, 463  
 KOROBOWICZ, Jerry: See ORLOWSKI, Witold J.  
 KRICHESKY, Alice R.: See SINSKEY, Robert M.  
 KRISHNA, Narendra: See LEOPOLD, Irving H.  
 KRISHNA, Narendra, and LEOPOLD, Irving H.: Effect of protopam on the rabbit pupil, 565  
 KRISHNA, Narendra, MANN, Mayer J., and LEOPOLD, Irving H.: Blood cholinesterases levels of normal and glaucoma subjects, 242  
 KROMAN, Henry S., and LEOPOLD, Irving H.: Studies upon the methyl- and fluoro-substituted prednisolones in the aqueous humor of the rabbit: II. Chromatography, 77

## L

LAMB, Vernon R.: See GIRARD, Louis J.  
 LAVERGNE, G.: See WEEKERS, R.  
 LEBENSOHN, James E.: On the golden anniversary of slitlamp microscopy, 5  
 LEGROS, A. M.: See WEEKERS, R.  
 LEHMAN, Robert N., and McCASLIN, Murray F.: A surgical technique for cataract extraction by eye residents: Evaluation of cataract surgery performed by residents at Veterans Administration Hospital, Pittsburgh, Pennsylvania, 111; An arm rest: for use in ophthalmic surgery, 568  
 LEONARD, Arthur: See COYLE, J. Terrence  
 LEOPOLD, Irving H.: See KRISHNA, Narendra. See also KROMAN, Henry S.  
 LEOPOLD, Irving H., and KRISHNA, Narendra: Effect of echthiophate and ambenonium on the rabbit pupil, 526  
 LIEBERMAN, Warren J., SCHIMEK, Robert A., and SNYDER, C. Harrison: Cockayne's disease: A report of a case, 116  
 LINN, Jay G., Jr.: See TARTER, Robert C. See also TERNER, Irwin S.  
 LISS, Leopold, and WOLTER, J. Reimer: Human retinal neurons in tissue culture, 834/402  
 LOCKE, John C.: See EDWARDS, G. Keith

## Mc

McCASLIN, Murray F.: Improved cutting edge for eye instruments, 413. See LEHMAN, Robert N.  
 McCOY, Francis W.: See PFAHL, S. Baird, Jr.  
 McCULLOCH, Clement: See HUNTER, W. S.  
 McDONALD, James E., and SINHA, Rana Pratap: Experiences with a new photocoagulator, 479  
 McEWEN, W. K.: See ST. HELEN, Roger  
 McKINNA, Alfred J.: Results of treatment of traumatic cataract in children, 43  
 McLEAN, John M.: See GALIN, Miles A.

## M

MAFFEI, Sigismondo: See GRAYSTON, J. Thomas  
 MAGGI, C.: Binocular vision in unilateral aphakia: Corrected by the Strampelli lens, 81  
 MAGRUDER, G. Brock: Lens extraction in hereditary deep corneal dystrophy, 677  
 MAKLEY, Torrence A.: See PFAHL, S. Baird, Jr.  
 MANN, Mayer, J.: See KRISHNA, Narendra  
 MARKIEWITZ, Harri H.: The heterophoria of Johannes Mueller, 724  
 MARTINEZ, Miguel: See KEATES, Richard H.  
 MASON, Gordon L.: See ALPERN, Mathew  
 MAUMENE, A. Edward: See CHANDLER, Paul A.  
 MEHRA, K. S., and HAMID, S.: Retinoblastoma in an adult, 405  
 MEISSNER, Richard H.: See WACHTEL, Joel G.  
 MILDNER, Benjamin: See KAPLAN, Alex H.

MILDER, Benjamin, and KAPLAN, Alex H.: Psychologic aspects of ophthalmic practice: Part II. Psychodynamics of eyeglass acceptance; the ophthalmologist-patient relationship, 696

## N

NAKAGAWA, Osamu: See NAKAJIMA, Akira  
NAKAJIMA, Akira, KANKI, Kazuo, and TAKAYAMA, Michiko: A new operation for glaucoma, 503  
NAKAJIMA, Akira, KONYAMA, Kazuichi, HADAYAMA, Akira, TORII, Ayako, NAKAGAWA, Osamu, and YOSHIMOTO, Teruhisa: Convenient method for use of chymotrypsin in cataract surgery, 263  
NEEB, Walter G.: Traction suture deflector: For muscle surgery, 414  
NEWELL, Darrell E., RUBIN, Melvin L., HORN, Charles, and ARMALY, Mansour F.: A pressure-sensitive crystal oscillator, 984  
NEWTON, F. H.: Congenital cataracts: A review of 84 cases, 368  
NIRANKARI, M. S., and SINGH, Daljit: Pedunculated hemangiomas of conjunctiva: Report of two cases, 266

## O

OCAMPO, Geminiano de, and ESPIRITU, Romeo B.: Bronchogenic metastatic carcinoma of the choroid, 107  
OCAMPO, Geminiano de, and FOJAS, Marcos R.: A new test for the viability and vitality of conjunctival and corneal epithelial cells: Methylene blue decolorization, 923  
OGLE, Kenneth N.: Blurring of retinal image and foveal differential light threshold, 755/323  
ORLOWSKI, Witold J., and KOROBOWICZ, Jerzy: The lymphadenoglucomatous syndrome: Report of a case, 101

## P

PATON, R. Townley: See KEATES, Richard H.  
PERRAUT, L. Edward: See DRYDEN, J. Spencer  
PFAHL, S. Baird, Jr., MAKLEY, Torrence A., ROTHERMICH, Norman O., and McCOY, Francis W.: The relationship of steroid therapy and cataracts in patients with rheumatoid arthritis, 831/399  
PFISTER, Roswell R.: See WOLTER, J. Reimer  
PICÓ, Guillermo: Mandibulofacial dysostosis: With the report of two cases, 521; Chronic pseudotumoral edema of the conjunctiva: Of possible myxedematous and amyloid origin: With report of two cases, 901  
PINE, Leo, SHEARIN, William A., and GONZALES, Cesar A.: Mycotic flora of the lacrimal duct, 619  
PISCHEL, Dohrmann K.: See COLYEYER, Bayard H., Jr.  
POLIS, Zbigniew: See SWIETLICZKO, Irena  
POSNER, Ronald E.: See WAITZMAN, Morton B.  
PRIESTLEY, Bruno S.: A modified euthyscope, 406

## R

RABAEY, M.: See FRANÇOIS, Jules  
RAPHAEL, S. S.: See SCHIRMER, K. E.  
RAVIN, Louis C.: Facial paralysis: A complication of chickenpox, 723  
RICHARDS, Richard D.: See SCHULTZ, Richard O.  
RICHARDSON, Charles B.: See GIRARD, Louis J.  
ROBERTS, Winston: The mushroom graft, 913  
ROHEN, Johannes: Comparative and experimental studies on the iris of primates, 394; The histologic structure of the chamber angle in primates, 529  
ROTHERMICH, Norman O.: See PFAHL, S. Baird, Jr.  
RUBIN, Melvin L.: Spectral hue loci of normal and anomalous trichromates, 166. See NEWELL, Darrell E.  
RUSKELL, Gordon L.: Choroidal vascularization in the rabbit, 807/375

## S

ST. HELEN, Roger, and McEWEN, W. K.: Rheology of the human sclera: I. Anelastic behavior, 539  
SAMPSON, Whitney G., and GIRARD, Louis J.: The coefficient of scleral rigidity: Effect of variation of the intraocular volume, 789/357  
SAYOC, Burgos T.: Surgical management of unilateral almond eye, 122  
SCHIMEK, Robert A.: See LIEBERMAN, Warren J.

SCHIRMER, K. E., and RAPHAEL, S. S.: Ocular reaction to plastic materials: Polyethylene and Teflon, 61  
SCHULTZ, Richard O., RICHARDS, Richard D., and HAMILTON, Henry E.: Asymmetric ptosis, 10  
SENIOR, B., FRIEDMANN, A. I., and BRAUDO, J. L.: Juvenile familial nephropathy with tapetoretinal degeneration: A new oculorenal dystrophy, 625  
SEWARD, William H.: See DRYDEN, J. Spencer  
SHEARIN, William A.: See PINE, Leo  
SHOCH, David: See ZELLER, E. Albert  
SIBAY, T. M.: See BASU, P. K.  
SINGH, Daljit: See NIRANKARI, M. S.  
SINHA, Rana Pratap: See McDONALD, James E.  
SINSKEY, Robert M., and KRICHESKY, Alice R.: Experimental hyphema in rabbits: III. Effect of iridectomy, iridencleisis and temporary elevation in intraocular pressure on the rate of absorption, 58  
SLOAN, Louise L.: Evaluation of the Tokyo Medical College color vision test, 650  
SMITH, Glendon G., CRASILENECK, Harold B., and BROWNING, Carroll W.: A follow-up study of suppression amblyopia: In children previously subjected to hypnotherapy, 690  
SNYDER, C. Harrison: See LIEBERMAN, Warren J.  
SOPER, Joseph W.: See GIRARD, Louis J.  
SORENSEN, James M.: See KIRBY, Thomas J., Jr.  
STEIN, R.: Complications in eye surgery: Due to introduction into the anterior chamber of solutions erroneously prepared with an antiseptic, 261  
STERN, Richard U.: A new projector chart, 988  
SUGAR, H. Saul: Limboscleral trephination, 29  
SUIE, Ted: See WACHTEL, Joel G.  
SVERDLICK, Jose: Subretinal intraocular hydatid cyst: Clinical diagnosis and surgical treatment, 981  
SWIETLICZKO, Irena, SZAPIRO, Jerzy, and POLIS, Zbigniew: Value of retinal artery pressure determination: In the diagnosis of internal carotid artery thrombosis: The role of the carotid compression test, 862  
SZAPIRO, Jerzy: See SWIETLICZKO, Irena

## T

TABOWITZ, David: See ESPIRITU, Romeo B.  
TAFLET, Simeon, and CARTER, George Z.: The use of fascia lata graft in the treatment of scleromalacia perforans, 693  
TAKAHASHI, Ellen: See TAMLER, Edward  
TAKAYAMA, Michiko: See NAKAJIMA, Akira  
TAMLER, Edward, and TAKAHASHI, Ellen: Collateral circulation to the eye, 381  
TARTER, Robert C., and LINN, Jay G., Jr.: A clinical study of the use of intravenous urea in glaucoma, 323  
TARNER, Irwin S., LINN, Jay G., Jr., and GOLDSTROHM, Robert: Clinical experiences with demecarium bromide (BC-48) in the treatment of glaucoma, 553  
THEODORE, Frederick, H.: See KORNZWEIG, Abraham L.  
TOPALIS, C.: See CHARAMIS, John  
TORII, Ayako: See NAKAJIMA, Akira  
TOWNES, C. Dwight, and KEENEY, Arthur H.: South American ophthalmology re-examined, 95

## U

URIST, Martin J.: Fixation anomalies in amblyopia ex anopsia, 19

## V

VAIL, Derrick: The treatment of postthyrotoxic exophthalmos: The suggested use of dextro-thyroxine: The XIV annual Mark J. Schoenberg Lecture, 145  
VALASAMIS, Marius P.: See KIRBY, Thomas J., Jr.  
VILLASECA, Alfredo: The A and V dromes, 172  
VOZZA, Riccardo, and BALDUCCI, Angelo: The technique of fluorescent antibodies in ophthalmology: A study of herpes simplex and vaccine keratoconjunctivitis and human trachomatous infection, 72

## W

WACHTEL, Joel G.: See KISSEN, Abbott T.  
WACHTEL, Joel G., SUIE, Ted, and MEISSNER, Richard H.: The effect of anergex on immunologic uveitis in rabbits: A preliminary report, 340

- WAITZMAN, Morton B., HUANG, Tao, and BALLINTINE, Elmer J.: Further studies of ciliary process enzyme systems, 847/415
- WAITZMAN, Morton B., and POSNER, Ronald E.: Further studies on the autonomiclike properties of ocular extracts, 845/413
- WALKER, Robert V.: See BROWNING, Carroll W.
- WATILLON, M.: See WEEKERS, R.
- WEAVER, Richard G., and DAVIS, Courtland H., Jr.: Subhyaloid hemorrhage, 287
- WEEKERS, R., LAVERGNE, G., WATILLON, M., GILSON, M., and LEGROS, A. M.: Effects of photo-coagulation of ciliary body upon ocular tension, 156
- WEINER, Alvin: See COYLE, J. Terrence
- WELLS, August H.: See BINDER, Hertha F.
- WESTERBERG, Martha R.: See GILES, Conrad L.
- WISE, George N.: Factors influencing retinal new vessel formation, 637. See HENKIND, Paul. See also KARLIN, David B.
- WOLTER, J. Reimer: Instrument for inserting encircling tubes, 260; The rosettes of a neuro-epitheliomatous retinoblastoma, 497. See LISS, Leopold
- WOLTER, J. Reimer, and PFISTER, Roswell R.: Tumors of the pars ciliaris retinae, 659
- WOOLRIDGE, Robert L.: See GRAYSTON, J. Thomas
- WONG, Sam: See CHAPIN, H. Beecher
- WORST, J. G. F.: A small electric rust-ring remover, 122; Fornix depressor: An aid in muscle surgery, 259
- Y
- YANG, Chung-yan: See GRAYSTON, J. Thomas
- YEN, Chun-hui: See GRAYSTON, J. Thomas
- YOSHIMOTO, Teruhisa: See NAKAJIMA, Akira
- YOUNG, Francis A.: The effect of restricted visual space on the primate eye, 799/367
- Z
- ZELLER, E. Albert, and SHOCH, David: On the enzymology of the refractory media of the eye: VI. Effect of intralenticular injection of halogen acetates on the transparency and peptidase activity of the rabbit lens, 65
- ZIMMERMAN, Lorenz E.: The Registry of Ophthalmic Pathology: Past, Present, Future: XVII Jackson Memorial Lecture, 927
- ZWENG, H. Christian, and FLOCKS, Milton: Experimental photocoagulation of the anterior chamber angle: A preliminary report, 163

